	Module 1         Module 2         Module 3         Module 4         Module 5         Module 5					Module 6
	Year 1 - Science	Year 1 - Science	Year 1 - Science	Year 1 - Science	Year 1 - Science	Year 1 - Science
Focus	Module 1 Everyday Materials	Module 2 Scientists and inventors.	Module 3 Seasonality	Module 4 Animals including Humans (A)	Module 5 Plants	Module 6 Animals including Humans (B)
Key Learning	Distinguish between an object and the material from which it is made.     Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rack.     Describe the simple physical properties of a variety of everyday materials.     Compare and group together a variety of everyday materials on the basis of their simple physical properties.	To find out about scientists and inventors linked to the Y1 curriculum     To describe the simple physical properties of a variety of everyday materials     To use observations to suggest answers to questions     To describe and compare the structure of a variety of common animals     To identify and classify animatic anomany will and garden plants     To adotted to the to the plant of the structure of a variety of common animals     To adotted to the plant of the structure of a variety of common animals     To adotted to the plant of the structure of a variety of common animals     To adotted to the to the structure of a variety of common animals     To adotted to the to the structure of a variety of exemptions     To describe and compare the structure of a variety of exemption the topic of the simple tests, by testing the insulating properties of different materials.     To compare a variety of everyday materials on the basis of their simple properties,     To see their senses to identify and compare different smells	Observe changes across the four seasons.     Observe and describe weather associated with the seasons and how day length varies.	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Jdentify and name a variety of common animals that are carnivores, herbivores and annivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). Jdentify, name, draw and lobet the basic parts of the human body and say which part of the body is associated with each sense.		<ul> <li>Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.</li> <li>Identify and name a variety of common animals that are carnivores, herbivores and onnivores.</li> <li>Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pers).</li> <li>Identify, name, draw and lobel the basic parts of the human body and say which part of the body is associated with each sense.</li> </ul>
Knowledge	All objects are made of one or more materials. Some objects can be made from different materials s.g. plastic, metal or wooden spoons. Materials can be described by their mapped are g.g. shing, stretchy, rough etc. Some materials e.g. plastic can be in different forms with very different properties. • Can label a picture or diagram of an object made from different materials • Can describe the properties of different materials		at the Ork, the day length is huggest to inter-sample (dool at a huggs) duta gets shorter each day until indiviniter (dool at 8 hours) before getting longer again. The weather also changes with the seconds. In the UK, it is usually coder The weather also beingest at the new of doors in the UK, it is usually coder.	eer born pionts and animais. Humans have key parts in comman, but these vary from person to person. Humans (and other animals) find out about the world using their senses. Humans have five senses - sight, touch, taste, hearing and smelling. These senses are linked to particular parts of the body. • Can name a range of animals which includes animals from each of the vertebrate groups • Can describe the key features of these named animals • Can write descriptively about an animal • Can write descriptively about an animal • Can escribe what a range of animals eat	Growing locally, there will be a vast array of plants which all have specific names. These can be identified by looking at the key characteristics of the plant. Plants have common parts, but they vary between the different types of plants. Some trees keep their leaves all year while other trees drop their leaves unimitation and grow them again during spring. Case in an arrees and other plants that they see regularly • Can describe some of the key features of these trees and plants e.g. the shape of the leaves, the colour of the flower/blossom • Can point our trees which lost their leaves and those that kept them the whole year • Can point our and name the parts of a plant, recognising that they are not always the same e.g. leaves and stems may not be green	Animals vary in many ways having different structures e.g. wings, tails, ears Act. They also have different structures e.g. wings, tails, ears Key features can be used to identify them animals ear certain things - some ear other animals, some ear plants, some ear both plants and animals. Humans have key parts in common, but these vary from person to person. Humans (and other animals) find out about the world using their senses. Humans (and other animals) find out about the world using their senses. Humans are linked to particular parts of the body. - Can name a range of animals which includes animals from each of the vertebrate groups - Can describe the key features of these named animals - Can write descriptively about an animal - Can baby and lead 'Siman says' - During PE leasons, can follow instructions involving parts of the body - Can abole parts of the body on pictures and diagrams - Can explore objects using different senses
Skills	<ul> <li>Can sort objects and materials using a range of properties</li> <li>Can choose an appropriate method for testing an object for a particular property</li> <li>Can use their test evidence to answer the questions about properties e.g.</li> <li>"Which cloth is the most absorbent?"</li> </ul>	observe and describe properties of plastic;     sort animals into groups based on their body parts;     -koase their favourite sensory plant fram a selection and explain why;     -take part in an investigation to find out the best materials to keep us warm.     sort animals into groups based on their body parts;     -add information to a pictogram to show their favourite plant;     identify which materials will keep us warm.	forecast video, writing seasonal poetry, creating seasonal artwork	- Can sort and group animals using similarities and differences - Can use simple charts etc. to identify unknown animals - Can arceate a drawing of an imaginary animal labelling its key features - Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookeepers etc Can use first-hand close observations to make detailed drawings - Can name body parts correctly when talking about measurements and comparisons e.g. "My arm is x straws long." "My arm is x straws long and my leg is y straws long. My leg is longer than my arm." "We both have hands, but his are bligger than mine." "These people have brown eyes and these have blue." - Can tak about their findings from investigations using appropriate vocabulary e.g. "My Engs are much better at feeling than my toes" "We found that the exist.		- Can sort and group animale using similarities and differences - Can use simple charts etc. to identify unknown animals - Can create a drawing of an imaginary animal labelling its key features - Can use secondary resources to find out what animals eat, including talking to experts e.g. pet owners, zookepers etc Can use first-hand close observations to make detailed drawings - Can name body parts correctly when talking about measurements and comparisons e.g. "My arm is straws long." My larg is longer than my arm is straws long and my leg is y straws long. My leg is longer than my arm. "We both have hands, but his are bigger than mine". "These people have brown eyes and these have blue." - Can talk about their findings from investigations using appropriate vecabulary e.g. "My fing is the some.
Possible Misconceptions	only fabrics are materials     only building materials are materials     only writing materials are materials     only writing materials are material     only writing in a material     only another word for hard.	- Scientists are old and male - Scientist only do experiments	it always snows in winter     it is always sunny in the summer     there are only flowers in spring and summer     it rains most in the winter.	<ul> <li>only four-legged mammals, such as pets, are animals</li> <li>humans are not animals</li> <li>insects are not animals</li> <li>all bugs or creepy cravities, such as spiders, are part of the insect group</li> <li>amphibians and reptiles are the same.</li> </ul>		<ul> <li>only four-legged mammals, such as pets, are animals</li> <li>humans are not animals</li> <li>insects are not animals</li> <li>all bug's or 'creapy cravities', such as spiders, are part of the insect group</li> <li>amphibians and reptiles are the same.</li> </ul>
Possible Activities	Classify objects made of one material in different ways e.g. a group of object made of metal.     Classify in different ways one type of object made from a range of materials e.g. a collection of spoons made of different materials.     Classify materials based on their properties.     Test the properties of objects e.g. absorbency of cloths, strength of party hats made of different papers, stiffness of paper plates, waterproofness of shelters.	<ul> <li>- identifying the properties of plastic in the context of Lego and think about why plastic is used. (learn about inventor of Lego - Ole Kirk Christiansen)</li> <li>- Sorting animals based on their features. (learn about George Mottershead)</li> <li>- explore a range of sensory plants and create a chart to show most popular (Horiculturists)</li> <li>- explore the work of vets and identifying basic body parts of animals</li> <li>- test the insulating properties of materials and indentify the most insulating material</li> </ul>	Collect information about the weather regularly throughout the year.     Present this information in tables and charts to compare the weather     across the seasons.     Collect information, regularly throughout the year, of features that     change with the seasons e.g. plants, animals, humans.     Present this information in different ways to compare the seasons.     Gather data about day length regularly throughout the year and present     this to compare the seasons.	Make first-hand, close observations of animals from each of the groups.     Compare two animals from the same or different groups.     Clossify animals by matching them to named images.     Clossify animal close observations of parts of the body e.g. hands, eyes.     Compare two people.     Compare two people.     Compare parts of their body.     Compare parts of their own body.     Lock for patterns between people e.g. Do people with big hands have big feet?     Clossify people according to their features.     Investigate human sense e.g. Which part of my body is good for feeling,     which is not? Which food/flavours can 1 identify by toste? Which smells     can 1 match?	Make close observations of leaves, seeds, flowers etc.     Compare two leaves, seeds, flowers etc.     Construction of the seeds, flowers etc.     Clossify leaves, seeds, flowers etc. using a range of characteristics.     Jeantify plants by maching theme to name images.     Make observations of how plants change over a period of time.     When further offeld, spor plants that ore the same as those in the local area studied regularly, describing the key features that helped them.	Make first-hand, close observations of animals from each of the groups.     Compare two animals from the same or different groups.     Clossify animals using a range of features.     Clossify animals by matching them to named images.     Clossify animals by matching them to named images.     Clossify animal close observations of parts of the body e.g. hands, eyes.     Compare two people.     Compare two people.     Compare parts of their body.     Compare parts of their own body.     Compare parts of their own body.     Clossify people according to their features.     Toks measures the people e.g. Do people with big hands have big     fee?     Toksen between people e.g. Do people with big act for feeling,     which is not? Which food/flavours can I identify by taste? Which smells     can I match?
	Year 2 - Science	Year 2 - Science	Year 2 - Science	Year 2 - Science	Year 2 - Science	Year 2 - Science
	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Focus	Animals Including Humans (A)	Animals including humans (B)	Uses of Everday Materials	Plants	Living Things and Their Habitat	Scientists and Inventors
Key Learning	<ul> <li>Notice that animals, including humans, have offspring which grow into adults.</li> <li>Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).</li> <li>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</li> </ul>	Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	<ul> <li>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</li> <li>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</li> </ul>	stay healthy.	<ul> <li>Explore and compare the differences between things that are living, dead, and things that have never been alive</li> <li>Identify that most living things live in habitats to which they are suited and describe how differen thints provide for the basic</li> <li>needs of different kinds of animals and plants, and how they depend on each other</li> <li>Identify and name a variely of plants and animals in their habitats, including micro-habitats</li> <li>Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food</li> </ul>	To use their observations and ideas to suggest answers to questions in the context of considering whether doctors are scientists. To describe the importance for humans of exercise, of eating the right amounts of different types of food, and hygiene in the context of creating a poster for a doctor's surgery to explain how to stay healthy. To describe the importance of hygiene to humans in the context of investigating Louis Posteur's work on how germs spread. To use their observations and ideas to answer simple question in the context of investigating how germs spread. To have their observations and ideas to answer simple question in the context of investigating how germs spread and the effect of hand washing. To find out about people who have developed new materials in the context of learning about Charles Macintosh. To identify and compare the suitability of a variety of everyday materials for particular uses in the context of festing materials to find the most suitable material for a waterproof coat. Rachel Carson To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain in the context of exploring Rachel Carson's study of the cozen. To observe closely, using simple equipment in the context of investigating the effects of pesticides in water, as researched by Rachel Carson To use their ideas to answer questions in the context of answering questions on renewable energy and the invention of wind turbines.
1		To grow into healthy adults, they also need the right amounts and types of food and exercise.	All objects are made of one or more materials that are chosen specifically because they have		All objects are either living, dead or have never been alive. Living things are plants	I can use my own ideas to explain how doctors use science.     I can describe what is important in order to stay healthy

Subscription     Subscription     Subscription     Subscription     Subscription     Subscription     Subscription       Subscription     Subscrin     Subscription     Subscription <th></th> <th>Module 1</th> <th>Module 2</th> <th>Module 3</th> <th>Module 4</th> <th>Module 5</th>		Module 1	Module 2	Module 3	Module 4	Module 5
SectorSecto		Can describe, including using diagrams, the life cycle				
a     Second Secon				Can explain using the key properties why a		Can sort into living, dead and never lived     Can give key features that mean the animal or plant
Note of the second s		child		purpose		its micro-habitat
Problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Probability of the problem       Probability of the problem     Probability of the problem     Probability of the problem     Pro	Skills	grow.		for testing a material for a particular property		<ul> <li>Can explain in simple terms why an animal or plant is</li> </ul>
Image: Problem in the second		baby/animal by creating a parenting/pet owners' guide		appropriate material for a purpose e.g. Which		worm as it needs fresh leaves to eat; the seaweed we
Simulation     Second Se				material is the best for a rain hat?		The beach cannot live in our pond because it is not sai
General Marcel Marc	De seihte					
Note:		respiration is breathing		only writing materials are materials	all plants start out as seeds	fire is living
Sector     Sector <td></td> <td></td> <td></td> <td>solid is another word for hard.</td> <td>seeds and bulbs need sunlight to germinate.</td> <td></td>				solid is another word for hard.	seeds and bulbs need sunlight to germinate.	
Max     Name	1	animals.		Make suggestions about alternative materials for a purpose that are both suitable and		have never lived.
Markameter     Apple and particulation of the partingeneric particulation of the particulation of the particu		<ul> <li>Ask questions of a parent about how they look after their baby.</li> </ul>		• Test the properties of materials for particular uses e.g. compare the stretchiness of fabrics to		Observe animals and plants carefully, drawing and la
App of part of the sector o	Activities	<ul> <li>Ask pet owners questions about how they look after their pet.</li> <li>Explore the effect of exercise on their bodies.</li> </ul>			<ul> <li>Make close observations and measurements of their plants growing</li> </ul>	
independentIncludeIncludeIncludeIncludeIncludeIncludeIndependentInclude<				most		Create simple food chains from information given e.g.     etc.).
MethodModeModeModeModeMode111						
Note     1     1     1     1     1     1     1       1     absolute     absol						Year 3 - Scien
And with the second s	Focus					
Mark     Substrate of the subst	rocus	ROCKS	Animals Including Humans		Plants	Light
Answer     Second				Notice that some forces need contact between two objects, but magnetic forces can act at a distance.		• Recognise that they need light in order to see things,
Image: Section of the section of t		simple physical properties.	that they cannot make their own food -	Observe how magnets attract or repel each other and attract some materials and not others.     Compare and aroun together a variate of evenday materials on the basis of whether they are	· Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and	<ul> <li>Notice that light is reflected from surfaces.</li> <li>Recognise that light from the sun can be dangerous in the sun can be d</li></ul>
Application     Appl	Key Learning			attracted to a magnet, and identify	from plant to plant.	
III		Recognise that soils are made from rocks and organic matter.	protection and movement.	Describe magnets as having two poles.	Explore the part that flowers play in the life cycle of flowering plants, including pollination,	opaque object.
Assume the second sec					seea tormation and seed dispersal.	
And Substrate Substr				A force is a push or a pull. When an object moves on a surface, the texture of the surface and		
And Process       Process Proc						
And       Result of the Marcine Minister Mininster Mininter Minister Mininter Minister Minister Mi		Rock is a naturally occurring material. There are different types of rock e.g. sandstone, limestone.		ice skater compared to walking on ice in normal shoes.		We see objects because our eyes can sense light. Dark anything in complete darkness. Some objects, for exam
American       Result of the second sec		slate etc. which have different properties.		A magnet attracts magnetic material. Iron and nickel and other materials containing these, e.g.	Many plants, but not all, have roots, stems/trunks, leaves and	sources of light. Objects are easier to see if there is no Objects
And Bis and a set and set			vitamins, minerals,	stainless steel, are magnetic. The strongest parts of a magnet are the poles. Magnets have two poles	anchor the plant in place. The stem transports water and nutrients/minerals	are easier to see when there is less light if they are ref
Normality		Soils are made up of pieces of ground down rock which may be mixed with plant and	often provide a	- a north pole and a south pole. If two like poles, e.g. two north poles, are brought together	photosynthesis, pollination and seed dispersal. The leaves use sunlight and	sun and
March March March March March       March March March       March March March March       March 			Humans, and some other animals, have skeletons and muscles which help them move and	push away from each other - repel. If two unlike poles, e.g. a north and south, are brought	enable the plant to reproduce. Pollen, which is produced by the male part of	can protect our eyes by wearing sunglasses or sunhats Shadows are formed on a surface when an opaque or
Beside Section     Beside Sectio	Knowledge	the soil.		they will pull together - attract.		
Image: Note: Section of the sectin of the section of the section of the section		Fossils were formed millions of years ago. When plants and animals died, they fell to the		trees.	dispersed in different ways. Different plants require different conditions for	the
Image: Section of the section of th		They became covered and squashed by other material. Over time the dissolving animal and	Can state that to be healthy we need to eat the right types of food to give us the			
Image: Section of			correct amount of these nutrients	it attracts.	<ul> <li>Can describe the life cycle of flowering plants, including pollination, seed</li> </ul>	describe dark as the absence of light
Image: Section of the section of th		features of each	skeleton, giving examples that support,	Can give examples of forces in everyday life     Can give examples of chiects moving differently		directly and state precautions used to view the
def statistic house definitionin some of the particular definition and some of the particular definition and some of the particular definition and some of the particular definition 		Can explain that soils are made from rocks and	Can describe how muscles and joints help	on different surfaces	examples	<ul> <li>Can define transparent, translucent and opaque</li> </ul>
Image: ConstructionImage: Constru		also contain living/dead matter		how the poles attract and repel		Can describe how shadows are formed
Construction production				attraction and repulsion between the poles of		
Set with the se		Can classify rocks in a range of different ways,	- Can already for and into these that are high	magnets		
BitsProvide program Provide program <b< td=""><td>1</td><td></td><td>or low in particular nutrients</td><td>move on different surfaces</td><td></td><td>Can describe patterns in visibility of different</td></b<>	1		or low in particular nutrients	move on different surfaces		Can describe patterns in visibility of different
And Profile Soft Soft Soft Soft Soft Soft Soft Soft			nutrients in food, based on their gathered	Can use their results to make predictions for further tests e.a. it will spin for longer on this		
		properties e.g. soft rocks get worn away more	Can talk about the nutrient content of their	surface than that, but not as long as it spun on	Can explain observations made during investigations     Can look at the features of seeds to decide on their method of dispersal	change
arr dependency dependency arr dependency dependency arr dependency dependency arr dependency dependency 	Skills	• Can present in different ways their understanding	Use their data to look for patterns (or lack	Can use classification evidence to identify that	Can draw and label a diagram of their created flowering plant to show its	are not visible in complete darkness
isplic of old isplic of old<		strip, chronological report, stop-go animation etc.	of them) when answering their enquiry question	Through their exploration, they can show how like	parts, their role and the method of pollination and seed dispersal	formed by blocking light
is is is is 		samples of soil	Can give similarities e.g. they all have     inite to help the animal move and	unmarked poles		
Personal		Can devise a test to explore the water retention of     soils	differences between skeletons	Can use test data to rank magnets		
Parabolic Parabolic Parabolic Parabolic 			• certain whole food arouns like fats are 'had' for you		plants eat food	• we can still see even where there is an absence of an
Name       Nam       Name       Name		materials which have been polished or shaped for use, such as a granite worktop, are not	<ul> <li>certain specific foods, like cheese are also 'bad' for you</li> </ul>		food comes from the soil via the roots	<ul> <li>the moon and reflective surfaces are light sources</li> </ul>
• ** both is status and or the definition       • intervent control and or the definition in the definitin the definit definit definition in the definition in the definit	Misconceptions	<ul> <li>certain found artefacts, like old bits of pottery or coins, are fossils</li> </ul>	<ul> <li>snakes are similar to worms, so they must also be invertebrates</li> </ul>		plants only need sunlight to keep them warm	
shows which solutionshows which solution is solution or solution			Invertebrates have no form of skeleton.		roots suck in water which is then sucked up the stem.	
• Oster w rock dodw,• Oster w rock dodw,			Classify food in a range of ways		Observe what happens to plants over time when the leaves or roots are removed.	
e-bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of a range of racks. -bevise to the investigate the induces of range of racks. -bevise to the investigate the induces of range of racks. -bevise to the investigate the induces of range of racks. -bevise to the investigate the induces of range of racks. -bevise to investigate the range of racks. -bevise to inthe range of racks. -bevise to i		Observe rocks closely.     Classify rocks in a range of ways based on their appagrance	<ul> <li>Use food labels to explore the nutritional content of a range of food items.</li> </ul>	Carry out investigations to explore how objects move on different surfaces e.g. spinning	Observe the effect of putting cut white carnations or celery in coloured     water	
Preaking b - constructing data not infinite of the infinit		<ul> <li>Devise a test to investigate the hardness of a range of rocks.</li> </ul>	Use food labels to answer enquiry questions e.g. How much fat do different types of pizza	<ul> <li>Explore what materials are attracted to a magnet.</li> </ul>	Investigate what happens to plants when they are put in different     conditions on in dedicates in the cold destined of in different	· Explore how objects with different surfaces, e.g. shiny
Activities <ul> <li></li></ul>	Possible	<ul> <li>Observe how rocks change over time e.g. gravestones or old building.</li> </ul>	much sugar is in soft drinks?	Classify materials according to whether they are magnetic.	soil, different fertilisers, varying amount of space.	<ul> <li>Explore how shadows vary as the distance between a changed.</li> </ul>
-Closely sole on targe of ways based on their appearanceUse second the ports and functions of the sketeronUse second the ports and functions of the sketeronClosely second the functio	Activities	Observe soils closely.	Explore the nutrients contained in fast food.	<ul> <li>Use a marked magnet to find the unmarked poles on other types of magnets.</li> </ul>	Observe flowers carefully to identify the pollen.	<ul> <li>Explore shadows which are connected to and disconr</li> </ul>
• observe how solic on be sparated through sedimentation.       • observe how solic on be sparated through sedimentation.       • observe how solic on be sparated through sedimentation.       • observe seeds.       • observe.		<ul> <li>Classify soils in a range of ways based on their appearance.</li> </ul>	<ul> <li>Use secondary sources to research the parts and functions of the skeleton.</li> </ul>	110	<ul> <li>Observe flowers being visited by pollinators e.g. bees and butterflies in</li> </ul>	Choose suitable materials to make shadow puppets.
Image: A set of a stand of a set of a stand of a s		Observe how soil can be separated through sedimentation.	Can people with longer legs run faster?		Observe seeds being blown from the trees e.g. sycamore seeds.     Research different types of seed dispersal.	Create artwork using shadows.
Image: second		the none of roay summy.	Compare, contrast and classify skeletons of different animals.		Classify seeds in a range of ways, including by how they are dispersed.     Create a new species of flowering plant.	
Module 1         Module 2         Module 2         Module 3         Module 3         Module 4         Module 4           Focus         Living Things and Their Habitats         Animals Including Humans         States of Matter (A)         Electricity         Electricity         States of Matter (A)         States of Matte					press of the second sec	
Focus       Living Things and Their Habitats       Animals Including Humans       States of Matter (A)       Electricity       Electricity       States of Matter         * Recognise that living things can be grouped in a variety of ways.       * Compare and group materials together, according to whether they are solids, liquids or this       * Compare and group materials together, according to whether they are solids, liquids or this       * Compare and group materials together, according to whether they are solids, liquids or the simple functions.       * Compare and group materials together, according to whether they are solids, liquids or the simple functions.       * Compare and group materials together, according to whether they are solids, liquids or the simple functions.       * Compare and group materials together, according to whether they are solids, liquids or the simple functions.       * Compare and group materials together, according to whether they are solids, liquids or the simple functions.       * Compare and group materials together, according to whether they are solids, liquids or the simple functions.       * Compare and group materials together, according to whether or not ta mice with they are headed or cooled, and measure or this the according to whether or not ta mice with the according to whether or not ta mice with a battery.       * Compare and group materials together, according to whether or not ta mice with a battery.       * Compare and group materials together, according to whether or not ta mice with opens and closes a circuit and associate the wheth the rate of exaporation with temperature.       * Observe that some materials change state when the rate of exaporation with the mater cycle and associate the tis with whether or not a lap with being good						Year 4 - Scient
<ul> <li>Recognise that living things can be grouped in a variety of ways.</li> <li>Explore and use clossification keys to help group, identify and name a variety of living things.</li> <li>Observe that some there is a clossification and wide revironment.</li> <li>Recognise that environments can change and that this can sometimes pose dangers to living things.</li> <li>Describe the simple functions, identifying producers, predators and prevention and condensation in the water cycle and associate that whether are not a languight in a switch some conductors and insulators, and associate metals with being good</li> <li>Compare and group materials together, according to whether they are solids, liquids or present the terme conductors and insulators, and associate metals with being good</li> <li>Compare and group materials together, according to main in the water cycle and associate metals with being good</li> <li>Compare and group materials together, according to main in the water cycle and associate metals with being good</li> <li>Compare and group materials together, according to main in the water cycle and associate metals with whether or not a languight in a simple series circuit, is dentify the different types of tent this interpret a variety of food chains, identifying producers, predators and preve.</li> <li>Compare and group materials together, according to main in the water cycle and associate metals with whether or not a languight in a simple series circuit.</li> <li>Compare and group materials together, according to main interpret a variety of food chains, identifying producers, predators and preve closus (C).</li> <li>Compare and group materials together, according to main interpret a variety of food chains, identifying producers, predators and preve closus (C).</li> <li>Compare and group materials together, according to main interpret a variety of food chains, identifying producers, predators and preve closus (C).</li> <li>Compare and group materi</li></ul>	Faarra					Module 5
Key Learning          - Recognise that living things can be grouped in a variety of ways.         - Recognise that living things can be grouped in a variety of ways.         - Support and used casification keys to help group, identify and name a variety of living things         in their local and wider environment.         - Recognise that environments can change and that this can sometimes pose dangers to living         in their local and wider environment.         - Recognise that environments         - Recognise that environments         - Recognise that environments         - Recognise that environment.         - Recognise that environments         - Recogni	rocus	Living Things and Their Habitats	Animals Including Humans	States of Matter (A)		States of Matter
*Recognise that living things can be grouped in a variety of ways. <b>explore and use cassification keys to help group, identify and name a variety of living things</b> <b>here cassification keys to help group, identify and name a variety of living things</b> <b>here cassification keys to help group, identify and name a variety of living things</b> <b>here cassification keys to help group, identify and name a variety of living things</b> <b>here cassification keys to help group, identify and name a variety of living things</b> <b>here cassification keys to help group, identify and name a variety of living things and beir simple functions.</b> <b>here cassification keys to help group, identify the different types of tesh in humans and their simple functions.</b> <b>here cassification keys to help group with a simple series circuit, based on whether on to a lamp will light in a simple series circuit, based on whether whether on to a lamp will light in a simple series circuit, based on whether whether on the appendix of a complete loop with a lamp is part of a complete loop with a lamp is part of a complete loop with a lamp is part of a complete loop with a light in a simple series circuit, a lamp lights in a simple series circuit, a lamp light in a single ser</b>				• Compare and aroun materials together according to whather they are salids liquid	Construct a simple series electrical circuit, identifying and naming its basic parts, including	
Key Learning       In their local and wider environment.       * Identify the different types of teem in humans and their simple functions.       research the temperature at which this       Image: Search the temperature at which this       Image: Search the temperature at which this       Dotation temperative at which		Recognise that living things can be grouped in a variety of ways.     Evaluate and use classification leave to help group identify and name a variety of things things.	. Describe the simple functions of the basic parts of the directive sustem in human	gases.	buzzers.	Compare and aroup materials together according to
+ Identify the part played by evaporation and condensation in the water cycle and associate       + Recognise that a switch opens and closes a circuit and associate this with whether or not a the rate of evaporation with temperature.       + Recognise that a switch opens and closes a circuit and associate this with whether or not a the rate of evaporation with temperature.       + Recognise that a switch opens and closes a circuit and associate this with whether or not a the rate of evaporation with temperature.       + Recognise that a switch opens and closes a circuit and associate this with whether or not a the research the temperature at which this hadron is in degrees closes.         + Recognise that a switch opens and closes a circuit and associate the switch opens and closes a circuit and associate this with whether or not a theorem open closes a circuit and associate the switch opens and closes a circuit and associate the temperature at which this hadron is the evaporation and condens at the evaporation at the evaporation and condens at the evaporation at the evaporatin at the evaporatin at the evaporatin at the evaporati	Key Learning	in their local and wider environment.	<ul> <li>Identify the different types of teeth in humans and their simple functions.</li> </ul>	research the temperature at which this	lamp is part of a complete loop with a	gases.
Recognise some common conductors and insulators, and associate metals with being good     Identify the part played by evaporation and conden			- construct and interpret a variety of tood chains, identitying producers, predators and prey.	Identify the part played by evaporation and condensation in the water cycle and associate	Recognise that a switch opens and closes a circuit and associate this with whether or not a	research the temperature at which this
conductors. the rate of evaporation with temperature.				The rate of evaporation with temperature.	Recognise some common conductors and insulators, and associate metals with being good	<ul> <li>Identify the part played by evaporation and condense</li> </ul>
						the rate of evaporation with temperature.

5	Module 6
nt is suited to t is suited to jil like a e found on alty	
een to move	- Scientists are old and male - Scientist only do experiments -certain things are not living (plants)
bjects that are living, dead and I labelling diagrams. at from first-hand observation and e.g. in picture books (Gruffalo	
ence	Year 3 - Science
5	Module 6 Magnets (B)
gs, and that dark is the absence of light. Is and that there are ways to protect their from a light source is blocked by an hange.	Compare how things move on different surfaces.     Notice that some forces need contact between two objects, but magnetic forces can act at a distance.     Observe how magnets attract or repel each other and attract some materials and not others.     Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.     Describe magnets a having two poles.     Predict whether two magnets will attract or repel each other, depending on which poles are
rrk is the absence of light. We cannot see tample, the sun, light bulbs and candles are more light. Some surfaces reflect light. effective. ats in bright light. or translucent object is between a light se of the shadow depends on the position of	tacing. A force is a push or a pull. When an object moves on a surface, the texture of the surface and the object offect how it moves. It may help the object to move better or it may hinder its movement e.g. is eskater compared to walking on ice in normal shoes. A magnet attracts magnetic material. Iron and nickel and other materials containing these, e.g. stainless steel, are magnetic. The strongest parts of a magnet are the poles. Magnets have two poles - a north pole and a south pole. If two like poles, e.g. two north poles, are brought together they will push away from each other - repel. If two unlike poles, e.g. a north and south, are brought together they will pull together - attract. For some forces to act, there must be contact e.g. a hand opening a door, the wind pushing the trees. Some forces can act at a distance e.g. magnetism. The magnet does not need to touch the abject that it attracts. - Can give examples of forces in everyday life - Can angive examples of forces in everyday life - Can angive asomples of poles of magnets and show how the poles attract and repel - Can autor exaults to describe how objects move on different surfaces - Can autor their results to make predictions for further tests e.g. it will spin for longer on this surface than hot, but not as long as it spun on that surface - Can use their results to discribe how objects move on different surfaces - Can use their results to discribe how objects move on different surfaces - Can use their results to discribe how objects move on different surfaces - Can use their results to discribe how objects move on different surfaces - Can use their results to discribe how objects move on different surfaces - Can use their results to make predictions for further tests e.g. it will spin for longer on this surface than that, but not as long as it spun on that surface - Can use their results to discribe how objects - Can use their results to make predictions for further tests e.g. it will spin for long
any light al features on their own shadow	Can use test data to rank magnets     the bigger the magnet the stronger it is     •all metals are magnetic.
le in different levels of lighting. iny vs matt, are more or less visible. a light source and an object or surface is nnected from the object e.g. shadows of S.	Carry out investigations to explore how objects move on different surfaces e.g. spinning tops/cons, rolling balls/cors, clockwork toys, soles of shoes etc. <ul> <li>Explore what materials are activated to a magnet.</li> <li>Clossify materials according to whether they are magnet.</li> <li>Explore what wy that magnets behave in relation to each other.</li> <li>Explore that magnets to find the unmarked poles on other types of magnets.</li> <li>Explore the magnets work at a distance e.g. through the table, in water, jumping paper clips up of the table.</li> <li>Devise an investigation to test the strength of magnets.</li> </ul>
ence	Year 4 - Science
5	Tear 4 - Science Module 6
ter (B)	Sound
to whether they are solids, liquids or wey are heated or cooled, and measure or ensation in the water cycle and associate	Identify how sounds are made, associating some of them with something vibrating.     Recognise that vibrations from sounds travel through a medium to the ear.     Find patterns between the pixel of a sound and features of the object that produced it.     Find patterns between the volume of a sound and the strength of the vibrations that produced it.     Recognise that sounds get fainter as the distance from the sound source increases.

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	Module 1	Module 2	Module 3 A solid keeps its shape and has a fixed volume. A liquid has a fixed volume but changes in	Module 4	Module 5 A solid keeps its shape and has a fixed volume. A liquid has a fixed volume but changes in	Module 6
			shape to fit the container. A liquid can be poured and keeps a level, horizontal surface. A gas fills all available		shape to fit the container. A liquid can be poured and keeps a level, horizontal surface. A gas fills all available	
		Food enters the body through the mouth. Digestion starts when the teeth start to break the food down. Saliva	space; it has no fixed shape or volume. Granular and powdery solids like sand can be confused with liquids		space; it has no fixed shape or volume. Granular and powdery solids like sand can be confused with liquids	
		is added and the tongue rolls the food into a ball. The food is swallowed and passes down the oesophagus	they can be poured, but when poured they form a heap and they do not keep a level surface		because they can be poured, but when poured they form a heap and they do not keep a level surface	A sound produces vibrations which travel through a medium from the source to our ears. Different
		to the stomach. Here the food is broken down further by being churned around and other chemicals are	when tipped. Each individual grain demonstrates the properties of a solid.		when tipped. Each individual grain demonstrates the properties of a solid.	mediums such as solids, liquids and gases can carry sound, but sound cannot travel through a vacuum
	Living things can be grouped (classified) in different ways according to their features.	added. The food passes into the small intestine. Here nutrients are removed from the food and leave	Melting is a state change from solid to liquid. Freezing is a state change from liquid to solid. The freezing		Melting is a state change from solid to liquid. Freezing is a state change from liquid to solid. The freezing	(an area empty of matter). The vibrations cause parts of our body inside our ears to vibrate, allowing us
	Classification keys can be used to identify and name living things.	the digestive system to be used elsewhere in the body. The rest of the food then passes into the large	point of water is 0oC. Boiling is a change of state from liquid to gas that happens when a liquid is heated to	others run on	point of water is 0oC. Boiling is a change of state from liquid to gas that happens when a liquid is heated to	The loudness (volume) of the sound depends on the strength (size) of vibrations which
	Living things live in a habitat which provides an environment to which they are suited (Year 2 learning). These environments may change naturally e.g. through flooding, fire, earthquakes etc. Human	intestine. Here the water is removed for use elsewhere in the body. What is left is then stored in the rectum until it	a specific temperature and bubbles of the gas can be seen in the liquid. Water boils when it is heated to	wires. If there is a break in the circuit, a loose connection or a short circuit, the component will not work. A switch	a specific temperature and bubbles of the gas can be seen in the liquid. Water boils when it is heated to 1000C. Evaporation is the same state change as boiling (liquid to gas), but it happens slowly at	decreases as they travel through the medium. Therefore, sounds decrease in volume as you move away from the
	also cause the environment to change. This can be in a good way (i.e. positive human impact, such as	body through the anus when you go to the toilet.	lower temperatures and only at the surface of the liquid. Evaporation happens more quickly if the	can be added to the circuit to turn the component on and off.	lower temperatures and only at the surface of the liquid. Evaporation happens more quickly if the	source. A sound insulator is a material which blocks sound effectively. Pitch is the highness or lowness of a sound and is affected by features of objects producing
Knowledge	setting up nature reserves) or in a bad way (i.e. negative human impact, such as littering). These environments	Humans have four types of teeth: incisors for cutting; canines for tearing; and molars and premolars for	temperature is higher, the liquid is spread out or it is windy. Condensation is the change back from a gas to a	Metals are good conductors so they can be used as wires in a circuit. Non-metallic solids are	temperature is higher, the liquid is spread out or it is windy. Condensation is the change back from a gas to a	the sounds. For example, smaller objects usually produce higher pitched sounds.
	also change with the seasons; different living things can be found in a habitat at different times of the year	grinding (chewing). Living things can be classified as producers, predators and prey according to their place in the food chain	liquid caused by cooling.	for graphite (pencil lead). Water, if not completely pure, also conducts electricity.	liquid caused by cooling.	Can name sound sources and state that sounds
	Can name living things living in a range of		Water at the surface of seas, rivers etc. evaporates into water vapour (a gas). This rises, cools and	Can name the components in a circuit     Can make electric circuits	Water at the surface of seas, rivers etc. evaporates into water vapour (a gas). This rises, cools and	are produced by the vibration of the object • Can state that sounds travel through different
	habitats, giving the key features that helped them to identify them	<ul> <li>can sequence the main parts of the digestive system</li> <li>can draw the main parts of the digestive</li> </ul>	condenses back into a liquid forming clouds. When too much water has condensed, the water droplets in	Can control a circuit using a switch     Can name some metals that are	condenses back into a liquid forming clouds. When too much water has condensed, the water droplets in	mediums such as air, water, metal • Can give examples to demonstrate how the
	Can give examples of how an environment may change both naturally and due to	Can describe what happens in each part of	the cloud get too heavy and fall back down as rain, snow, sleet etc. and drain back into rivers etc. This is	conductors     • Can name materials that are insulators	the cloud get too heavy and fall back down as rain, snow, sleet etc. and drain back into rivers etc. This is	pitch of a sound are linked to the features of the object that produced it
	human impact	the digestive system     • Can point to the three different types of	known as precipitation. This is the water cycle.		known as precipitation. This is the water cycle.	Can give examples of how to change the volume of a sound e.g. increase the size of
		teeth in their mouth and talk about their shape and what they are used for	Can create a concept map, including arrows     linking the key vocabulary		Can create a concept map, including arrows     linking the key vocabulary	vibrations by hitting or blowing harder • Can give examples to demonstrate that sounds
		Can name producers, predators and prey     within a habitat	Can name properties of solids, liquids and     gases		Can name properties of solids, liquids and gases	get fainter as the distance from the sound source increases
		Can construct food chains	Can give everyday examples of melting and freezing		Can give everyday examples of melting and freezing	
			Can give everyday examples of evaporation and condensation Can describe the water cycle		Can give everyday examples of evaporation and condensation     Can describe the water cycle	
			Can give reasons to justify why something is	Can communicate structures of circuits	Can give reasons to justify why something is	
			a solid liquid or gas <ul> <li>Can give examples of things that melt/freeze</li> </ul>	using drawings which show how the components are connected	a solid liquid or gas • Can give examples of things that melt/freeze and he to institute a statement	
	- Can know a careful record of living this	Can use diagrams or a model to describe the journey of food through the body	and how their melting points vary - From their observations, can give the melting number of the metanical	Use classification evidence to identify that metals are good conductors and     are metale are involved.	and how their melting points vary  • From their observations, can give the melting exists of come metariale	Can explain what happens when you strike a     drum or pluck a string and use a diagram to     chave have cauded traverse from an exhibit to the
	Can keep a careful record of living things found in different habitats throughout the ware (diagrams, talk, charts at ).	explaining what happens in each part • Can record the teeth in their mouth (make	melting points of some materials • Using their data, can explain what affects how a with a colif melte	non-metals are insulators • Can incorporate a switch into a circuit to turn it on and off	melting points of some materials • Using their data, can explain what affects box quickup a solid metre	show how sounds travel from an object to the ear
Skills	year (diagrams, tally charts etc.) • Can use classification keys to identify unknown plants and animals	a dental record)  • Can explain the role of the different types	how quickly a solid melts • Can measure temperatures using a thermometer	turn it on and off • Can connect a range of different switches identifying the parts that are	how quickly a solid melts • Can measure temperatures using a thermometer	Can demonstrate how to increase or decrease     pitch and volume using musical instruments or     other objects
	Can present their learning about changes     to the environment in different ways e.g.	of teeth • Can explain how the teeth in animal skulls	Can explain why there is condensation on the inside the hot water cup but on the	switches identifying the parts that are insulators and conductors • Can add a circuit with a switch to a DT	Can explain why there is condensation on     the inside the hot water cup but on the	Can use data to identify patterns in pitch and     volume
	campaign video, persuasive letter	show they are carnivores, herbivores or omnivores	• From their data, can explain how to speed	project and can demonstrate how it works	• From their data, can explain how to speed	Can explain how loudness can be reduced by moving further from the sound source or by
		Can create food chains based on research	up or slow down evaporation • Can present their learning about the water	• Can give reasons for choice of materials for making different parts of a	up or slow down evaporation • Can present their learning about the water	using a sound insulating medium
			cycle in a range of ways e.g. diagrams, explanation text, story of a water droplet	switch • Can describe how their switch works	cycle in a range of ways e.g. diagrams, explanation text, story of a water droplet	
			Solid' is another word for hard or opaque     solids are hard and cannot break or change shape easily and are often in one piece		'solid' is another word for hard or opaque     solids are hard and cannot break or change shape easily and are often in one piece	
		arrows in a food chains mean 'eats'	substances made of very small particles like sugar or sand cannot be solids     particles in liquids are further apart than in solids and they take up more space		substances made of very small particles like sugar or sand cannot be solids     particles in liquids are further apart than in solids and they take up more space	
	the death of one of the parts of a food chain or web has no or limited consequences on the     rest of the chain	the death of one of the parts of a food chain or web has no, or limited, consequences on the rest of the chain	<ul> <li>when air is pumped into balloons, they become lighter</li> <li>water in different forms - steam, water, ice - are all different substances</li> </ul>		when air is pumped into balloons, they become lighter     water in different forms – steam, water, ice – are all different substances	Pitch and volume are frequently confused, as both can be described as high or low.
Possible	there is always plenty of food for wild animals     animals are only land-living creatures	there is always plenty of food for wild animals     vour stomach is where your belly button is	<ul> <li>all liquids boil at the same temperature as water (100 degrees)</li> <li>melting, as a change of state, is the same as dissolving</li> </ul>	electricity flows to bulbs, not through them     electricity flows out of both ends of a battery	all liquids boil at the same temperature as water (100 degrees)     melting, as a change of state, is the same as dissolving	sound is only heard by the listener     sound only travels in one direction from the source
misconception	animals are only late-animals care adapt to their habitats, however they change     all changes to habitats are negative.	vota standarts where you berry barrows     food is digested only in the stomach     when you have a meal, your food goes down one tube and your drink down another	steam is visible water vapour (only the condensing water droplets can be seen)     clouds are made of water vapour or steam	electricity works by simply coming out of one end of a battery into the component.	steam is visible water vapour (only the condensing water droplets can be seen)     clouds are made of water vapour or steam	sound can't travel through solids and liquids     high sounds are load and low sounds are quiet.
		<ul> <li>the food you eat becomes "poo" and the drink becomes "wee".</li> </ul>	the substance on windows etc. is condensation rather than water     the changing states of water (illustrated by the water cycle) are irreversible		the substance on windows etc. is condensation rather than water     the changing states of water (illustrated by the water cycle) are irreversible	
			evaporating or boiling water makes it vanish     evaporation is when the Sun sucks up the water, or when water is absorbed into a     surface/material.		evaporating or boiling water makes it vanish     evaporation is when the Sun sucks up the water, or when water is absorbed into a     surface/material.	
			Observe closely and classify a range of solids. Observe closely and classify a range of liquids.		Observe closely and classify a range of solids. Observe closely and classify a range of liquids.	
			<ul> <li>Explore making gases visible e.g. squeezing sponges under water to see bubbles, and showing their</li> </ul>		Explore making gases visible e.g. squeezing sponges under water to see bubbles, and showing their	
	Observe plants and animals in different habitats throughout the year.	Research the function of the parts of the digestive system.	effect e.g. using straws to blow objects, trees moving in the wind. • Classify materials according to whether they are solids, liquids and gases.	Construct a range of circuits.     Explore which materials can be used instead of wires to make a circuit.	effect e.g. using straws to blow objects, trees moving in the wind. • Classify materials according to whether they are solids, liquids and gases.	Classify sound sources.
	Observe plants and animals in different habitats throughout the year.     Compare and contrast the living things observed.     Use classification keys to name unknown living things.	Create a model of the digestive system using household objects.     Explore eating different types of food to identify which teeth are being used for cutting,	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g. ice, chocolate, butter.     Investigate how to melt ice more quickly.	Construct a range of circuits.     Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/not suitable for wires.     Explore how to connect a range of different switches and investigate how they function in	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g. ice, chocolate, butter.     Investigate how to melt ice more quickly.	Classify sound sources.     Explore making sounds with a range of objects, such as musical instruments and other household     biseted
Possible	Compare and contrast the living things observed.     Use classification keys to name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.	<ul> <li>Create a model of the digestive system using household objects.</li> <li>Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing).</li> </ul>	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g. ice, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.	Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/not suitable for wires.	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g. ice, chocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making rocky road cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.	Explore making sounds with a range of objects, such as musical instruments and other household objects.     Explore how string telephones or ear gangs work.
Possible Activities	Compare and contrast the living things observed.     Use classification keys to name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find out about how environments may naturally change.	Create a model of the digestive system using household objects.     Explore eating different types of food to identify which teeth are being used for cutting, tearing and		Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/not suitable for wires.     Explore how to connect a range of different switches and investigate how they function in different ways.     Chaose switches to add to circuits to solve particular problems, such as a pressure switch for a burgiar alarm.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials mething e.g., ice, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream	- Explore making sounds with a range of objects, such as musical instruments and other household objects.     - Explore how string telephones or ear gongs work.     - Explore altering the pitch or volume of objects, such as the length of a guitar string, amount of water
Possible Activities	Compare and contrast the living things observed.     Use classification keys to name unknown living things.     Classify living things found in different habitats based on their features.     Crate a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.	- Create a model of the digestive system using household objects Explore eating different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores according to the type of teeth they	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g.; toc, chocalate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the melting point of different materials e.g.; ice, margarine, butter and chocalate Explore freezing different fluids e.g. tomato ketchup, al, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), tap water, hot water, builds water (demonstration) Observe twater evoporating and condensing e.g. on cups of icy water and hot water Investig	Explore which materials can be used instead of wires to make a circuit.     Clossify the materials that were suitable/not wires.     Explore how to cannect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarum.     Apply their knowledge of conductors and insulators to design and make different types of switch.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g. i.e., chocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate Explore freezing different liquids e.g. tamots texthup, oil, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, build water (demonstration) Observe water evaporation and condensing e.g. on cups of icy water and hot water Investig	Explore making sounds with a range of objects, such as musical instruments and other household objects.     Explore how string telephones or ear gongs work.     Explore altering the pitch or volume of objects, such as the length of a guitar string, amount
Possible Activities	Compare and contrast the living things observed.     Use classification keys to name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about human impact, bang basitation and the positive and negative, on	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, frearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat.	- Clossify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g.; toc, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the melting point of different materials e.g.; ice, margarine, butter and chocolate Explore freezing different fluids e.g.; tomato ketchup, al, shampoo Use a thermometer to measure temperatures e.g.; icy water (melting), tap water, hot water, builds water (demonstration) Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on - Commenter of the conduction of the conduction of the rate of evaporation e.g. washing, puddles,	Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/not suitable for wires.     Explore how to connect a range of different switches and investigate how they function in different ways.     Chaose switches to add to circuits to solve particular problems, such as a pressure switch for a burgiar alarm.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g. i.e., chocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream Investigate the melting point of different materials e.g. i.e., margarine, butter and chocolate Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, build water (demonstration) Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on	- Explore making sounds with a range of objects, such as musical instruments and other household objects.     - Explore how string telephones or ear gangs work.     - Explore how string telephones or ear gangs work.     - Explore altering the pirch or volume of objects, such as the length of a guitar string, amount of water     in bottles, size of tuning forks.     - Measure sounds over different distances.
Possible Activities	Compare and contrast the living things observed.     Use classification keys to name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about human impact, bang basitation and the positive and negative, on	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, frearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g. ice, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomato ketchup, all, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, boiling water (demonstration) Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, -	Explore which materials can be used instead of wires to make a circuit.     Clossify the materials that were suitable/not wires.     Explore how to cannect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarum.     Apply their knowledge of conductors and insulators to design and make different types of switch.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g. i.e., chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-ream Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), tap water, hot water, boiling water (demonstration) Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles,	- Explore making sounds with a range of objects, such as musical instruments and other household objects.     - Explore how string telephones or ear gangs work.     - Explore how string telephones or ear gangs work.     - Explore altering the pirch or volume of objects, such as the length of a guitar string, amount of water     in bottles, size of tuning forks.     - Measure sounds over different distances.
Possible Activities	Compare and contrast the living things observed.     Use classification keys to name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about human impact, bang basitation and the positive and negative, on	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, frearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g.; cc, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the melting point of different materials e.g.; ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomato ackchup, al, shampao Use a thermometer to measure temperatures e.g.; icy water (melting), top water, hot water, water (demonstration) Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on poper towels, liquids in containers.	Explore which materials can be used instead of wires to make a circuit.     Clossify the materials that were suitable/not wires.     Explore how to cannect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarum.     Apply their knowledge of conductors and insulators to design and make different types of switch.	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g. i.e., chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the melting point of different materials e.g. i.e., margarine, butter and chocolate Explore freezing different liquids e.g. tomato techcip. oil; shampoo Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, water (demonstration) Observe water evaporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in containers.	- Explore making sounds with a range of objects, such as musical instruments and other household objects.     - Explore how string telephones or ear gangs work.     - Explore how string telephones or ear gangs work.     - Explore altering the pirch or volume of objects, such as the length of a guitar string, amount of water     in bottles, size of tuning forks.     - Measure sounds over different distances.
Possible Activities	Compare and contrast the living things observed.     Use classification key sto name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find out about huw environments may naturally change.     Use secondary sources to find out about human impact, both positive and negative, on environments.     Vear 5 - Science     Module 1	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, fearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Years 5 - Science - Module 2	• Classify materials according to whether they are solids, liquids and gases. • Observe a range of materials melting e.g.; cc, chocolate, butter. • Investigate how to melt ice more quickly. • Observe the changes when making rocky road cakes or ice-cream. • Investigate the melting point of different materials e.g.; ice, margarine, butter and chocolate. • Explore freezing different liquids e.g. tomato ketchup, al; shampao. • Use a thermometer to measure temperatures e.g.; icy water (melting), top water, hot water, builting output of the solution of the	Explore which materials can be used instead of wires to make a circuit.     Classify the materials tand were suitable/row suitable for wires.     Explore how to connect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar.     Apply their knowledge of conductors and insulators to design and make different types of switch.     Make circuits that can be controlled as part of a DT project.     Year 5 - Science     Module 4	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g., icc, hocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo Use a thermometer to measure temperatures e.g., icy water (melting), tap water, hot water, builting - Observe water evoporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evoporation e.g. washing, puddles, handprints on - gaper towels, liquids in containers Use secondary sources to find out about the water cycle Years 5 - Science - Module 5 - Module 5 - Containers - Con	
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Possible Activities	Compare and contrast the living things observed.     Use classification key sto name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find out about how environments may naturally change.     Use secondary sources to find out about human impact, both positive and negative, on     environments.     Year 5 - Science     Module 1     Forces (A)	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing), - Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Year 5 - Science	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g., ice, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the metting point of different materials e.g., ice, margarine, butter and chocolate Explore freezing different fluids e.g., tamoto ketchup, all, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), tap water, hot water, boiling water (demonstration) Observe twere evoparating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in containers Use secondary sources to find out about the water cycle		- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g., icc, hocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo Use a thermometer to measure temperatures e.g., icy water (melting), tap water, hot water, builting - Observe water evoporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evoporation e.g. washing, puddles, handprints on - gaper towels, liquids in containers Use secondary sources to find out about the water cycle Years 5 - Science - Module 5 - Module 5 - Containers - Con	
Possible Activities	Compare and contrast the living things observed.     Use classification key sto name unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find out about human impact, both positive and negative, on     environments.     Vear 5 - Science     Module 1     Forces (A)     Explain that unsupported objects fall towards the Earth because of the force of gravity acting	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Year 5 - Science - Module 2 - Forces (B) - Explain that unsupported objects fall towards the Earth because of the force of gravity acting	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g., ice, chocolate, butter Investigate how to melt ice more quickly Observe the changes when making racky road cakes or ice-cream Investigate the metting point of different materials e.g., ice, margarine, butter and chocolate Explore freezing different fluids e.g., tamoto ketchup, all, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), tap water, hot water, boiling water (demonstration) Observe twere evoparating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in containers Use secondary sources to find out about the water cycle		- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g., icc, hocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo Use a thermometer to measure temperatures e.g., icy water (melting), tap water, hot water, builting - Observe water evoporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evoporation e.g. washing, puddles, handprints on - gaper towels, liquids in containers Use secondary sources to find out about the water cycle Years 5 - Science - Module 5 - Module 5 - Containers - Con	
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Possible Activities Focus Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find out about how environments may naturally change.     Use secondary sources to find out about how environments may naturally change.     Veer 5 - Science     Veer 5 - Science     Forces (A)     Forces (A)     Forces (A)	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Veer 5 - Science - Module 2 - Forces (B) - Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Low of the effects of air resistance, water resistance and fiction that act between moving - accounting - a	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g.; co, chocate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocalate.     Explore freezing different fliquids e.g. tomato ketchup, all, shampoo.     Use a thermometer to measure temperatures e.g. ice water, hot water, hot water, builing     water (demonstration).     Observe the vace vacporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles,     hardprints on.     Use accondary sources to find out about the water cycle.     Year 5 - Science     Module 3     Earth and Space     vocasing the movement of the Earth, and other planets, relative to the Sun in the solar     system.     Describe the movement of the Moon relative to the Earth.     Describe the sun, Earth and Moon as approximately spherical bodies.		- Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting e.g., icc, hocolate, butter Investigate how to melt ice more quickly Observe the changes when making rocky road cakes or ice-cream Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo Use a thermometer to measure temperatures e.g., icy water (melting), tap water, hot water, builting - Observe water evoporating and condensing e.g. on cups of icy water and hot water Set up investigations to explore changing the rate of evoporation e.g. washing, puddles, handprints on - gaper towels, liquids in containers Use secondary sources to find out about the water cycle Years 5 - Science - Module 5 - Module 5 - Containers - Con	
	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find out about how environments may naturally change.     Use secondary sources to find out about how environments may naturally change.     Veer 5 - Science     Veer 5 - Science     Forces (A)     Forces (A)     Forces (A)	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Classify animals as the transmission of the type of teeth they force of the type of teeth they force of the type of teeth they results Use secondary sources to identify animals in a habitat and find out what they eat Classify animals as the type of teeth they classify animals of the type of teeth they force of the type of teeth they have in the type of the type of teeth they have in the type of the type of teeth they are the type of the type of teeth they have in the transmission of the type of teeth they have in the transmission of the type of the type of teeth they have of the type of type of type of type of the type of type	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g.; co, chocate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocalate.     Explore freezing different fliquids e.g. tomato ketchup, all, shampoo.     Use a thermometer to measure temperatures e.g. ice water, hot water, hot water, builing     water (demonstration).     Observe the vace vacporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles,     hardprints on.     Use accondary sources to find out about the water cycle.     Year 5 - Science     Module 3     Earth and Space     vocasing the movement of the Earth, and other planets, relative to the Sun in the solar     system.     Describe the movement of the Moon relative to the Earth.     Describe the sun, Earth and Moon as approximately spherical bodies.		Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., icc, hocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo.     Use a thermometer to measure temperatures e.g., icy water (melting), top water, hot water, butting     more solution of the solutio	
	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about how environments may naturally change.     Use secondary sources to find our about how environments.      Year 5 - Science     Year 5 - Science     Kodule 1     Forces (A)      Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.     'Ladentfy the effects of air resistance, water resistance and friction that act between moving surfaces.	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Veer 5 - Science	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g.; co, chocate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocalate.     Explore freezing different fliquids e.g. tomato ketchup, all, shampoo.     Use a thermometer to measure temperatures e.g. ice water, hot water, hot water, builing     water (demonstration).     Observe the vace vacporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles,     hardprints on.     Use accondary sources to find out about the water cycle.     Year 5 - Science     Module 3     Earth and Space     vocasing the movement of the Earth, and other planets, relative to the Sun in the solar     system.     Describe the movement of the Moon relative to the Earth.     Describe the sun, Earth and Moon as approximately spherical bodies.		Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., icc, hocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo.     Use a thermometer to measure temperatures e.g., icy water (melting), top water, hot water, butting     more solution of the solutio	
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Describe the sun, Earth and Moon as approximately spherical bodies.	Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/for wires.     Explore how to connect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar alarm.     Apply their knowledge of conductors and insulators to design and make different types of switch.     Make circuits that can be controlled as part of a DT project.     Year 5 - Science     Year 5 - Science     Module 4     Properties and Changes of Materials     Compare and group together everyday materials on the basis of their properties, including their hardness, sublibility. Arnosprency, conductivity (electrical and thermal), and response to magnets.     Know that some materials will disavbe in liquids to form a solution and describe how to recover a substance from a solution.     Use knowledge of solids, iquids and gases to decide how mixtures might be separated, including through filtering, sieving and everyday materials, not their spress, solutions, using and exercise to add the separated, including through filtering, sieving and everyder materials, and that the solution and describe how to recover a substance from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.     Demonstruct that disals, building through solution and that that did of changes associated with burning and the action of a did no how materials, and that this kind of changes essociated with burning and the action of a did no how materials (add, add, agas).	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., icc, hocolate, butter.     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Gravity is a force that cast at a distance. Everything is pulled to the Earth by	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., chocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different fliquids e.g. tomato ketchup, all, shampoo.     Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, builds     more tracket expanding and condensing e.g. on cups of icy water and hot water.     Observe water evoparating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evoporation e.g. washing, puddles, handprints on to explore changing the rate of evoporation e.g. washing, puddles, handprints or towers to find out about the water cycle.     Vee scondary sources to find out about the water cycle.     Vee scondary sources to find out about the planets, relative to the Sun in the solar system.     Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.     Describe the Sun, Earth and Moon as approximately spherical badies.     Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Clossify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> </ul> Year 5 - Science Nodule 4 Properties and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (lectrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to from a solution and describe how to recover a substance from a solution. • Use nowledge of solutions, functional grass to decide how mixtures might be separated, including filtering, siving and sources of solution. • Use nowledge of solution, which and agaes to decide how mixtures might be separated, including filtering, siving and changes of state are reversible changes. • Exploit that some changes result in the formation of acid on bicorbonate of sola. • Oberometries, including metals, including changes of state are reversible changes. • Exploit that some changes result in the formation of acid on bicorbonate of sola. • Demonstructs with some as depending on their properties and state (figud, solid, gas). Properties include hardness, transparency, electrical and their properties and state (figud, solid, gas). Properties include the different uses of everyday materials, including metals, including his pro	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., icc, hocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomoto ketchup, oil, shampoo.     Use a thermometer to measure temperatures e.g., icy water (melting), top water, hot water, butting     more solution of the solutio	
	Compare and contrast the living things observed.     Use classification key sto nome unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key base don observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find our doub two environments may naturally change.     Use secondary sources to find our doub two environments may naturally change.     Use secondary sources to find our doub two environments may naturally change.     Use secondary sources to find our doub two environments may naturally change.     Use secondary sources to find our doub two environments may naturally change.     Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.     Compare the Earth and the falling object.     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Vestigate the melting opint of different materials e.g. ice, margarine, butter and chocolate.     Explore freezing different fluids e.g. to mano ketchup, oil, shampoo.     Vestigate the melting opint of different materials e.g. ice, margarine, butter and chocolate.     Vestigate the mething opint of different materials e.g. ice, margarine, butter and chocolate.     Vestigate the mething opint of different materials e.g. ice, water (melting), top water, hot water, dimensionation).     Observe water evaporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in containers.     Use secondary sources to find out about the water cycle.     Vest Secondary sources to find out about the water cycle.     Vest is explore the movement of the Earth, and other planets, relative to the Sun in the solar system.     Describe the movement of the Moon relative to the Earth.     Describe the movement of the Moon relative to the Earth.     Describe the sun, Earth and Moon as opproximately spherical badies.     Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to complete its orbit arrowed around the Sun in fixed orbits. Earth torates the rate handle its orbit around the Sun. The Earth rotates (gins) on its axis every 24 hours. As Earth tha rotates half faces	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use knowledge of an evidance from comparative and fair tests, for the particular uses of everydary materials, materials, and that this kind of changes as of state are reversible changes.</li> <li>Exploin that some enteries, wing and excips of state are reversible changes.</li> <li>Exploin that some enteries, king and excips of state are reversible changes.</li> <li>Exploin that some enteries, including metals, wood and plastic.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploin that some enteries will dissolve of acid on bicchorbone of soda.</li> <li>Properties include hardness, transparency, electrical and thermal conductivity and attraction to a fact metals, solid, appli, including metals, wood and plastic.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploin that some changes result in the formation</li></ul>	Classify materials according to whether they are solids, liquids and gases.     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Everything is pulled to the Earth by gravity. This causes unsupported objects to fail.	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g.; co, chocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.     Explore freezing different fluids e.g. to mano ketchup, oil, shampao.     Volating the melting opint of different materials e.g. ice, margarine, butter and chocolate.     Support freezing different fluids e.g. to mano ketchup, oil, shampao.     Volating thermometer to measure temperatures e.g. ice y water (melting), top water, hot water,     water (demonstration).     Observe water evaporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles,     handprints on     paper towels, liquids in containers.     Use secondary sources to find out about the water cycle.     Year 5 - Science     Kodule 3     Earth and Moon as opproximately spherical badies.     · Describe the movement of the Earth, and other planets, relative to the Sun in the solar     system.     · Describe the movement of the Moon relative to the Earth.     · Describe the Sun, Earth and Moon as opproximately spherical badies.     · Use heide on the Earth's rotation to explain day and night and the apparent movement of     the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to     nome them,     Dut not essential). These travel around the Sun in fixed orbits. Earth totates <sup>MMV</sup> , days to     compilet its orbit     round the Sun. The Carth notates (upint), As the Earth rotates, the Sun appears to bage the sun     (day) and half is facing away from the Sun (night). As the Earth rotates, the Sun appears to	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Chooper and group together everyday materials and the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use how that some and evidence from comparative and fair tests, for the particular uses of everyday materials, and that the stating distribution with the different target set of the properties.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use knowledge of solids, liquids and agaes to decide how mixtures might be separated, including threating, siving and evaporating.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, endume that in properties and their disclosed, and that this kind of chones associated with burning and the action of acid on biccrborate of soda.</li> <li>Perspectities including metals, including chones of state are reversible changes.</li> <li>Explain that some changes result in the formation of new materials, and that this kind of chones associated with burning and the action of acid on biccrbora</li></ul>	Classify materials according to whether they are solids, liquids and gases.     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	Compare and contrast the living things observed.     Use classification key sto nome unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key base don observable features.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.     Compare and the falling object.     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This causes unsupported objects to fall.	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Use secondary sources to identify animals in a habitat and find out what they eat Veer 5 - Science - Module 2 - Forces (B) - Explain that unsupported objects fail towards the Earth because of the force of gravity acting between the Earth and the failing object Identify the effects of air resistance, water resistance and friction that act between moving actocs Recegnise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect A force courses an object to start moving stop moving speed up, slow down or change gravity. 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Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.     Describe the sun, Earth and Moon as approximately spherical bodies.     Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to name them,     but not essentia). These travel around the Sun in fixed orbits. Earth takes <sup>sawy, A</sup> days to complete its orbit     around the Sun. The Earth rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun     (day) and half is facing away from the Sun (night). As the Earth rotates, the Sun appears to move	Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/for wires.     Explore how to connect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar darm.     Apply their knowledge of conductors and insulators to design and make different types of switch.     Make circuits that can be controlled as part of a DT project.     Veer 5 - Science     Veer 5 - Science     Nodule 4     Properties and Changes of Materials     Compare and group together everyday materials and the prosenties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.     Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.     Use of substance from a solution.     Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and platic.     Demostrate that dissolving mating and changes of state are reversible changes.     Properties including metals, wood and platic.     Demostrate that dissolving metals, including changes associated with burning and the action of acid on bicarbonate of soda. Materials how different uses depending on their properties and state (figuid, solid, gas). Properties include hardness, the different uses depending on their properties and state (figuid, solid, gas). Materials how different uses depending on their properties and state (figuid, solid, gas). Materials how to different uses depending on their properties in conductivity (and attraction to a solution while others are insoluble and form sement. Mattrees can be separated by filtering, sieving and exapprotrio. Materials how to different uses depending on their properties in ad state (figuid, solid, gas). Properties include hardness, transparence, 4 detertical	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials mething e.g., chocolete, butter.     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Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key base don observable features.     Use secondary sources to find our dabut how environments may naturally change.     Use secondary sources to find our dabut how environments may naturally change.     Use secondary sources to find our dabut how environments may naturally change.     Use secondary sources to find our dabut how environments may naturally change.     Use secondary sources to find our dabut how environments may naturally change.     Use secondary sources to find our dabut how environments may naturally change.     Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.     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The small force moves a long distance and the resulting large force moves a small distance, e.g. a crowbar or bottle to premover, Pulleys, levers an algears are all mechanisms, also known as simple mochines.	Classify materials according to whether they are solids, liquids and gases. Observe a range of materials melting e.g., chocolate, butter. Investigate how to melt ice more quickly. Observe the changes when making rocky road cakes or ice-cream. Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate. Explore freezing different flighties e.g. tomato ketchup, oil, shampoo. Use thermometer to measure temperatures e.g., ice, wargarine, butter and chocolate. Observe the revoporating and condensing e.g. on cups of icy water and hot water. Observe water evaporating and condensing e.g. on cups of icy water and hot water. Observe water evaporating and condensing e.g. on cups of icy water and hot water. 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Earth rotates, half faces the Sun ard Moon and the Sun (night). As the Earth rotates, the Sun appears to move across	Explore which materials can be used instead of wires to make a circuit.     Classify the materials that were suitable/for wires.     Explore how to connect a range of different switches and investigate how they function in different ways.     Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar.     Apply their knowledge of conductors and insulators to design and make different types of switch.     Make circuits that can be controlled as part of a DT project.     Year 5 - Science     Module 4     Properties and Changes of Materials     Compare and group together weryday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.     Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.     Use and fairing, siewing and changes of state are reversible changes.     Exploit that some knowledge results in the formation of new materials, and that this kind of change is not usually reversible, including metals, wood and plastic.     Demonstrate that dissolving, mixing and changes of state are reversible changes.     Exploit that some knowled results in the formation of new materials, and that this kind of change is not usually reversible, including not form a solution of a state (inguid, solid, gos).     Properties in a class of state are reversible changes.     Exploit that some hanges result in the formation of new materials, and that this kind of change is not usually reversible, including not form a solution while others are insoluble and form sediment.     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Colserve water evaporation e.g. washing, puddles, hardprints or use to find out about the water cycle. Colserve water water evaporation e.g. washing, puddles, hardprints or the secondary sources to find out about the water cycle. Colserve water water of the Moon relative to the Earth. Colserve water water or the Moon as a parximately spherical badies. Complete its orbit Complete	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar darm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials and their properties, including their handness, sublability, transporency, conductivity (dectrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use howledge of solids, liquids and gases to decide how materials, and that this kind of changes of state are reversible changes.</li> <li>Exploit that some changes result in the formation of new materials, and that this kind of change is not subalific.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploit that some changes result in the formation of new materials, and that this kind of change is not subalific.</li> <li>Demonstrate that dissolving work in a liquid and form a solution while others are insoluble and form sediment.</li> <li>Some materials, will dissolve in a liquid and state are reversible changes.</li> <li>Exploit that some changes result in the formation of new materials, and that this kind of change is not subalific.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploit that some changes result in the formation of new materials, and that this kind of change share that dissolvi</li></ul>	Classify materials according to whether they are solids, liquids and gases.     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When babies are young, they grow rapidly. They are very dependent on     their parents. As they develop, they learn many skills. At puberty, a child's     body changes and develops primary and secondary sexual characteristics.     This enables the dudit to erproduce.	
Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use isochary sources to find out about how environmenter any naturally change.     Use secondary sources to find out about how environments may naturally change.     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Properties include hardness, transporteroy, decitical and thermal conductivity and attraction to magnets. Some materials will dissolve in a liquid and form a solution while others are ino</li></ul>	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials mething e.g. icc, chocolete, butter.     Investigate how to mell ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomato witchip, oil, shampoo.     Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, butter     of the solution of the second of	
Key Learning	Compare and contrast the living things observed.     Use classification key so nome unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use isochardry sources to find out about how environments may naturally change.     Use secondary sources to find out about how environments may naturally change.     Veer 5 - Science      Account of the failing     Object.     Forces (A)      Forces (A)      Forces of a single source so find out about how and source so find for the force of gravity acting     between the Earth and the failing     Object.     Forces (A)      A force causes an object to start moving, stop moving, speed up, slow down or change     direction. Gravity is a force that cat a disfance. Everything is pulled to the Earth by     gravity. This is a dowice that allows a small force to be increased to a larger force.     The object may be moving stop moving, speed up, slow down or change     direction. Everything is pulled to the Earth by     gravity. This causes unsupported object.     A force causes an object to start moving, stop moving, speed up, slow down or change     direction. Gravity is a force that cats a disfance. Everything is pulled to the Earth by     gravity. This causes unsupported objects foll.     Air creases to be object may be moving stop moving, speed up, slow down or change     direction. Gravity is a force that cats a disfance. Everything is pulled to the Earth by     gravity. This causes unsupported object to fold.     Air changes and black to a disfance. Everything is pulled to the Earth by     gravity. This causes unsupported object to fold.     Air changes to be black to a disfance and     here sulfing large force moves a small disfance to be     the resulting large force moves a small disfance or the dir and uter may     be moving over a stationary object.     The pa	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Veer 5 - Science - Veer 5 - Scien	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., chocolate, butter.     Investigate how to mell ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different fluids e.g. to mano ketchup, oil, shampao.     Use the melting optim of different materials e.g., ice, margarine, butter and chocolate.     Subserve the changes when making racky road cakes or ice-cream.     Use the memore is to measure temperatures e.g., ice y water (melting), top water, hot water, downter (demonstration).     Observe the vaporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on     paper towels, liquids in containers.     Use secondary sources to find out about the water cycle.     Year 5 - Science     Hodule 3     Earth and Space     Nedule 1     Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.     Describe the movement of the Moon relative to the Earth.     Describe the movement of the Moon relative to the Earth.     Describe the Sun, Earth and Moon as opproximately spherical badies.     Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to complete its orbit rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun (night). As the Earth rotates, her Sun, Earth and Moon are approximately spherical badies.     Con create a voice over for a video clip or animotion     the sun and Moon way from the Sun (night). As the Earth rotates, the Sun, Earth and Moon are approximately spherical.     Con create a voice over for a video clip or animotion     con splein its more suice	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Clossify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials and their solution of their properties, including their hardness, solubility, transparency, conductivity (lectrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use howledge of solids, liquids and gazes to decide how mixtures might be separated, including thereins, busiding, finetring, siving and changes of state are reversible changes.</li> <li>Exploin that some materials will dissolve in a figuid on form a solution and therials, wood and plastic.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploin that some changes result in the formation of acid on bicarbonate of sola.</li> <li>Materials how different uses depending on their properties and state (fiquid, solid, gas).</li> <li>Properties include hardness, transparency, electrical and thermal conductivity and attraction to a former materials, including metals, including metals, including metals, including metals, including and changes of state are reversible changes.</li> <li>Exploin that some changes result in the formation of acid on bicarbonate of soda.</li>     &lt;</ul>	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials mething e.g. icc, chocolete, butter.     Investigate how to mell ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomato witchip, oil, shampoo.     Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, butter     of the solution of the second of	
Key Learning	Compare and contrast the living things observed.     Use classification key so nome unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find out about how environmenter ag, litter, thee planting.     Use secondary sources to find out about how environmenter ag, litter, thee planting.     Veer 5 - Science     Veer 5 - Science 5 Science 5 Science 5 Veer 5 Veer 5 Veer 5 Veer 5 Vee	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, cornivores or omnivores according to the type of teeth they have in their suits - Use food values to identify producers, predators and prey within a habitat Use food values to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Veer 5 - Science - Veer 5 - Science - Module 2 - Forces (B) - Explain that unsupported objects fall towards the Earth because of the force of gravity acting abitive the Earth and the falling object Identify the effects of air resistance, water resistance and friction that act between moving surfaces Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect An echanism is a device that acts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects fold Are couses an object to start moving stop moving, speed up, slow down or change direction. Gravity is a force that acts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects of all Are tonsims in a dowise that acts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects of all Are tonsims in a dowise that acts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects of all Are tonsims in a dowise that allows a small force to be increased to a larger force They back is that if requires a greater movement. The small force moves a long distance and the resulting targe force moves as small distance, e.g. a crowbar or bottle - to preaver. Pulleys, levers and gears are all mechanisms, also known as simple - machines Can demonstrate the effect of gravity acting on an unsupported object - Can give example	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., chocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making rocky road cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margorine, butter and chocolate.     Explore freezing different fluids e.g., otnocide, butter, otherwater, how the changes when making rocky road cakes or ice-cream.     Investigate the metting point of different materials e.g., ice, margorine, butter and chocolate.     Sue to thermometer to measure temperatures e.g., icy water (melting), top water, hot water, butter, butter, demonstration).     Water (demonstration).     Vate to thermometer to measure temperatures e.g., icy water (melting), top water, hot water, set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on gaper towels, liguids in containers.     Vae secondary sources to find out about the water cycle.     Veer 5 - Science     Nodule 3     Earth and Space     Nodule 3     Earth and Space     Nodule 3     Earth and Space     Nodule 10     Earth and Space     Nodule 3     Earths rotation to explain day and night and the opparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to name them, but not essentia). These travel around the Sun in fixed orbits. Earth takes <sup>11/2</sup> , days to complete its orbit around the Sun (night). As the Earth rotates, half such the carth rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun appears to move across     The Sun a facing away from the Sun (night). As the Earth rotates, the Sun appears to move across     The Sun a carge a value over for a video clip or animation.     Con arobe a value over for a video clip or animation.     Con arobe a value over for a video clip or animation.     Con create a value over for a video clip or animation.	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials and the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and therman), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use howledge of solids, liquids and gases to decide how mixtures might be separated, including metals, solvading, including metals, wood and flastic.</li> <li>Benowitches from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and flastic.</li> <li>Benostrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploin that some hanges result in the formation of new materials, and that this kind of change is not suscitally wersible, including on their properties and state (liquid, solid, gas). Properties including and that action of acid on bicarbonate of soda.</li> <li>Materials have different uses depending on their properties and state (liquid, solid, gas). Properties include hardness, transparency, lectrical and thermal conductivity and attraction to magnets. Some materials will dissolve in a liquid and form a solution while others are insoluble and form sediment.</li> <li>Denostrate that dissolving, mixing and changes of stat</li></ul>	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials mething e.g. icc, chocolete, butter.     Investigate how to mell ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomato witchip, oil, shampoo.     Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, butter     of the solution of the second of	
Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Use secondary sources to find our doub how environments may naturally change.     Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.     Compare and before the force of air resistance, water resistance and friction that act between moving surfaces.     Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.     A force causes an object to start moving, stop moving, speed up, slow down or change direction. Gravity is a force that casts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects to fall.     A force couses an object to start moving, stop moving, speed up, slow down or change direction. Gravity is a force that casts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects to fall.     A may a greater effect.     A may be a stilloard or by object.     A mechanism is a device that allows a small force to be increased to a larger force.     The pay back, water resistance and friction are contact forces that act between moving surfaces. The object may be moving divers a greater movement. The small force move a still direction are stoped or by dect.     A mechanism is a device that allows a small force to be increased to a large	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for curting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat Veer 5 - Science	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., chocolate, butter.     Investigate how to mell ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different fluids e.g. to mano ketchup, oil, shampao.     Use the melting optim of different materials e.g., ice, margarine, butter and chocolate.     Subserve the changes when making racky road cakes or ice-cream.     Use the member to measure temperatures e.g., icy water (melting), top water, hot water, downter (demonstration).     Observe the vaporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on     paper towels, liquids in containers.     Use secondary sources to find out about the water cycle.     Year 5 - Science     Hodule 3     Earth and Space     Nedule 1     Earth and Moon as opproximately spherical badies.     Use heice of the Earth, and other planets, relative to the Sun in the solar system.     Describe the movement of the Koan relative to the Earth.     Describe the movement of the Noon relative to the Earth.     Describe the movement of the Noon relative to the Earth.     Describe the sun, Earth and Moon as opproximately spherical badies.     Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to complete its orbit rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun (night). As the Earth rotates, the Sun, Earth and Moon are approximately spherical badies, the Sun, Earth and Moon are approximately spherical.     Can create a voice over for a video clip or aninomion.     Can actue the size couse of the Earth and Moon     Ca	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials and their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use howledge of solids, liquids and gases to decide how materials, and that this kind of changes of state are reversible changes.</li> <li>Exploit that some changes result in the formation of new materials, and that this kind of change solid will dissolve in a colution of a solution will dissolve to recover a substance from a solution.</li> <li>Use knowledge of solids, liquids and gases to decide how materials, and that this kind of change is not usally metrials, including metrials, wood and plastic.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>Exploit that some changes result in the formation of new materials, and that this kind of change is not susally work in a liquid and form a solution while others are insoluble and form seliment.</li> <li>Materials how different uses depending on their properties and state (liquid, solid, gas). Properties including thereing, sieving and exapperation.</li> <li>Some materials will dissolve in a liquid and form a solutio</li></ul>	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials mething e.g. icc, chocolete, butter.     Investigate how to mell ice more quickly.     Observe the changes when making rock yroad cakes or ice-cream.     Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate.     Explore freezing different liquids e.g. tomato witchip, oil, shampoo.     Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, butter     of the solution of the second of	
Key Learning	Compare and contrast the living things observed.     Use classification key to solve observable features.     Create a simple identification key based on observable features.     Secondary sources to find out about how environments may naturally change.     Use secondary sources to find out about how environments may naturally change.     Secondary sources to find out about how environments may naturally change.     Secondary sources to find out about how environments and integration of the secondary sources to find out about how environments.     Secondary sources to find out about how environments are integrating.     Secondary sources to find out about how environments.     Secondary sources to find out about how environment experiments.     Secondary sources to find out about how environment experiments.     Secondary sources to find out about how environment experiments.     Secondary sources to find out about how environment experiment experiment experiments.     Secondary sources to find out about how environment experiment experimove experimptite the effect of a failed experiment experiment expe	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for curting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat <b>Year 5 - Science</b> - <b>Wodule 2</b> - <b>Classify animals as herbivores</b> - <b>Forces (B)</b> - Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Identify the effects of air resistance, water resistance and friction that act between moving surfaces. The object ray be moving stop moving, speed up, slow down or change direction, Gravay is done and finding a to take that a to start a to start a to start a to start a to take a to that. A force causes an abject to start moving stop moving, speed up, slow down or change direction, Gravay is done and finding and the totake a to start a control force start and a single force to have a greater effect A force causes an abject to start moving stop moving, speed up, slow down or change direction, Gravay is done that a cars at a totake a verything is pulled to the Earth by arrows, water resistance and firstion are controf force to that act that a digues a greater moving unforces. The object may be moving through the eir or water, or the eir and water may be moving over a starting orgalized A mechanism is a device that allows a small force to be increased to a larger force A mechanism is a device that allows a small force to be increased to a larger force The pay back is that it rejurges a greater movement. The small force moves a long distance and the resisting cand are resistance Can demonstrate the effect of	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., chocolate, butter.     Investigate how to mell ice more quickly.     Observe the changes when making racky road cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margarine, butter and chocolate.     Explore freezing different fluids e.g. to mano ketchup, oil, shampao.     Use the melting optim of different materials e.g., ice, margarine, butter and chocolate.     Subserve the changes when making racky road cakes or ice-cream.     Use the member to measure temperatures e.g., icy water (melting), top water, hot water, downter (demonstration).     Observe the vaporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on     paper towels, liquids in containers.     Use secondary sources to find out about the water cycle.     Year 5 - Science     Hodule 3     Earth and Space     Nedule 1     Earth and Moon as opproximately spherical badies.     Use heice of the Earth, and other planets, relative to the Sun in the solar system.     Describe the movement of the Koan relative to the Earth.     Describe the movement of the Noon relative to the Earth.     Describe the movement of the Noon relative to the Earth.     Describe the sun, Earth and Moon as opproximately spherical badies.     Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to complete its orbit rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun (night). As the Earth rotates, the Sun, Earth and Moon are approximately spherical badies, the Sun, Earth and Moon are approximately spherical.     Can create a voice over for a video clip or aninomion.     Can actue the size couse of the Earth and Moon     Ca	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar diarm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together veryday materials and the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use how what some materials will dissolve in diquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use howledge of solids, liquids and agaes to decide how mixtures might be separated, including thread that disk sing and evoparating.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materiab, including metab, and thermal cond thermal conductivity (using solid), exploring and the action of acid on bicchronet of soda.</li> <li>Perpointing that dissolve ha situation and dhermal conductivity and attraction of soda.</li> <li>Materials hardness, transparency, electrical and thermal conductivity and attraction of soda materials will dissolve has disadiving and evoparating.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materiab; including metab, including metab, including metab, including metab, and thermal conductivity and attraction of ocid on</li></ul>	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials mething e.g. ic., chocolete, butter Investigate how to mell ice more quickly Observe the changes when making rock yroad cakes or ice-cream Investigate the mething point of different materials e.g. ice, margarine, butter and chocolate Explore freezing different liquids e.g. toman backchap, oil, shampoo Use a dimometer to measure temperatures e.g. icy water (melting), top water, hot water, water (demonstration) Observe the transportation and concerning the rate of evaporation e.g. washing, puddles, handprints on - paper towels, liquids in containers Use secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary sources to find out about the water cycle Value secondary source to find out about the water cycle Value secondary source the changes as humans develop to old age Describe the changes as humans develop to old age Observe the changes that takes place in boys and girls during puberty. Can explain the changes that takes place in boys and girls during puberty - Can explain the changes that takes place in boys and girls during puberty - Can explain the changes that takes place in boys and girls during puberty - Can explain the value boby changes physically as it grows, and also what it is able to do -	
Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find out about how environmenter any naturally change.     Use secondary sources to find out about how environments may naturally change.     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This causes unsupported objects to fail new ontore forces that a the tearth by gravity. This causes unsupported objects to fail new ontore forces that a beat and by gravity. This causes unsupported objects to fail are new ontore forces that a beat and by gravity. This causes unsupported objects to fail. A force causes an object to start moving stop moving speed up, slow down or change gravity. This causes unsupported objects to fail are water, or the ai and water may be moving over a stationary object. A mechanism is a device that alies a gravity acting is pulled to the Earth by gravity. This causes unsupported objects to fail. 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Use a memometer to measure temperatures e.g. icy water (melting), top water, hot water, water ice moments to measure temperatures e.g. icy water (melting), top water, hot water, water water evaporating and condensing e.g. on cups of icy water and hot water.     Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on paper towels, liquids in containers.     Use secondary sources to find out about the water cycle.     Veer 5 - Science     Module 3     Earth and Space     Module 1     Earth and Space     Obscience the movement of the Karth, and other planets, relative to the Sun in the solar system.     Describe the movement of the Moon relative to the Earth.     Describe the sun, Earth and Moon as approximately spherical badies.     Use the ideo of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.     The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to name them, but not essentiation are approximately spherical badies.     Use the ideo of the Earth's rotation to exploin day and night and the apparent movement of the Sun fixed orbits. Earth takes <sup>1117</sup> , days to come essentiation are approximately spherical.     Can create a voice over for a video clip or animation.     The Moon arbits the Earth. It takes about 28 days to complete its orbit. The Sun, Earth and Moon are approximately spherical.     Can create a voice over for a video clip or animation.     Can arbit the movement of the Earth and Moon second the Earth and Moon Moon are approximate	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar darm.</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use howeledge of solids, liquids and gases to decide how mixtures might be separated, including filtering, siving and evaporating.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, working different, disking and evaporating.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, working different uses depending on their properties and state (liquid, solid, gas).</li> <li>Properties include hardness; result in the formation of new materials, and that this kind of chonge is associated with burning and the action of acid on biccarbonate of soda.</li> <li>Materials have different uses depending on their properties and state (liquid, solid, gas).</li> <li>Properties include hardness; runspranse, electrical and hiermal conductivity and attraction of acid on biccarbonate of soda acid.</li> <li>Can use understanding of properties t</li></ul>	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials mething e.g. ic., chocolete, butter Investigate how to melt ice more quickly Observe the changes when making rock yroad cakes or ice-cream Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate Explore freezing different liquids e.g. tomato textchup, oil, shampoo Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, building water (doe water even), toing and condensing e.g. on cups of igv water and hot water Set up investigations to explore changing the rate of evaporation e.g. washing, puddles, handprints on - gaper towels, liquids in containers Use secondary sources to find out about the water cycle Year 5 - Science - Module 5 - Animals Including Humans - Describe the changes as humans develop to old age Describe the changes as humans develop to old age Describe the changes and humans develop to old age Describe the changes as humans develop to old age The point of the could to evelope reques The point of the could be eveloped to a different on their parents. As they develop, they learn many skills. At puberty, a child's body changes and develops primary and secondary source states This enables the close produce This enables the close point of toxes plote in boys and girs during puberty - Can explain the changes physically as it grows, and also what it is able to do - Can explain how a baby changes physically as it grows, and also what it is - Can explain to apper to be the source of the open set in boys and girs during puberty - Can explain the changes the traces plote in boys and girs during puberty - Can explain the changes the source of the sour	
Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use fieldwork to explore human impact on the local environment e.g. litter, tree planting.     Use secondary sources to find out about human impact, both positive and negative, on     environments.     Veer 5 - Science     Veer 5 - Science     Medule 1     Forces (A)     Forces (A)     Forces (A)     Forces (A)     Forces (A)	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for curting, tearing and grinding (chewing) Classify animals as herbivores, cornivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat <b>Year 5 - Science</b> - <b>Module 2</b> - Forces (B) - Explain that unsupported objects fall towards the Earth because of the force of gravity acting object Identify the effects of air resistance, water resistance and finction that act between moving surfaces Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect A force causes an object to start moving, stop moving, speed up, slow down or change direction. Gravity is a force that cats at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects to fall Anothog water endersite and finding new or the or or bein moving surfaces A force causes an object to start moving, stop moving, speed up, slow down or change direction. Gravity is a force that cats at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects to fall A mothog may be moving A mothog may be moving Can demonstrate the effect of gravity acting on an unsupported - object - Can demonstrate the effect of gravity acting on an unsupported - object - Can demonstrate the effect of gravity acting on an unsupported - con give examples of thiction, water resistance and air - Can demonstrate the ord in resistance.	Classify materials according to whether they are solids, liquids and gases. Observe a range of materials melting e.g., chocolate, butter. Conserve free changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the changes when making rocky road cakes or ice-cream. Conserve the comporting and condensing e.g. on cups of icy water and hot water. 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Key Learning	Compare and contrast the living things observed.     Use classification key to some unknown living things.     Classify living things found in different habitats based on their features.     Create a simple identification key based on observable features.     Use secondary sources to find out about how environmenter any naturally change.     Use secondary sources to find out about how environments may naturally change.     Veer 5 - Science     Adoute 1     Forces (A)	- Create a model of the digestive system using household objects Explore earling different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing) Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat <b>Year 5 - Science</b> - <b>Module 2</b> - Forces (B) - Forces (B) - Forces (B) - Read the facts of air resistance, water resistance and friction that out between moving surfaces. The object nor the total and find out wont or change direction. Gravity is a force that acts at a distance. Everything is pulled to the Earth by gravity. This causes unsupported objects to fail are contact forces that a the tearth by gravity. This causes unsupported objects to fail new ontore forces that a the tearth by gravity. This causes unsupported objects to fail new ontore forces that a beat and by gravity. This causes unsupported objects to fail are new ontore forces that a beat and by gravity. This causes unsupported objects to fail. A force causes an object to start moving stop moving speed up, slow down or change gravity. This causes unsupported objects to fail are water, or the ai and water may be moving over a stationary object. A mechanism is a device that alies a gravity acting is pulled to the Earth by gravity. This causes unsupported objects to fail. A force couses an object to gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a gravity acting an an unsupported beat and the failes a	Classify materials according to whether they are solids, liquids and gases.     Observe a range of materials melting e.g., chocolate, butter.     Investigate how to melt ice more quickly.     Observe the changes when making rocky road cakes or ice-cream.     Investigate the melting point of different materials e.g., ice, margorine, butter and chocolate.     Explore freezing different fliquids e.g. formoto ketchup, oil, shampoo.     Use a thermometer to measure temperatures e.g., ice wargorine, butter and chocolate.     Vear to measure temperatures e.g., ice wargorine, butter and chocolate.     Vear to measure temperatures e.g., ice wargorine, butter and chocolate.     Vear to measure temperatures e.g., ice wargorine, butter and hot water.     Vear to measure temperatures e.g., ice wargorine, butter and hot water.     Vear to the evolution of a different materials e.g. on cups of icy water and hot water.     Vear to see a control on the evolution of the evolution of the water or evolution of the evolution o	<ul> <li>Explore which materials can be used instead of wires to make a circuit.</li> <li>Classify the materials that were suitable/for wires.</li> <li>Explore how to connect a range of different switches and investigate how they function in different ways.</li> <li>Choose switches to add to circuits to solve particular problems, such as a pressure switch for a burglar</li> <li>Apply their knowledge of conductors and insulators to design and make different types of switch.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Make circuits that can be controlled as part of a DT project.</li> <li>Compare and group together everyday materials and the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including filtering, silving and evoparding.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.</li> <li>Snow that some extanges result in the formation of new materials, and that this kind of therage associated with burning and the action of acid on bicarbonate of soda.</li> <li>Materials how different uses depending on their properties and state (injudi, solid, gas).</li> <li>Properties include hardness, resulting the solution while others are insoluble and from selement.</li> <li>Materials have different uses depending on their properties and state (injudi, solid, gas).</li> <li>Properties include hardness, romapprenze, detectical and thermal conductivity and attraction to materials.</li> <li>Desprete the materials will dissolve in a liquid and form a solution while others are insoluble and from segment</li></ul>	- Classify materials according to whether they are solids, liquids and gases Observe a range of materials mething e.g. ic., chocolete, butter Investigate how to melt ice more quickly Observe the changes when making rock yroad cakes or ice-cream Investigate the melting point of different materials e.g. ice, margarine, butter and chocolate Explore freezing different liquids e.g. forms of wetchup, oil; shampoo Use a thermometer to measure temperatures e.g. icy water (melting), top water, hot water, building water (demonstration) Use is the mething to explore changing the rate of evaporation e.g. washing, puddles, handprints on - gaper towels, liquids in containers Use secondary sources to find out about the water cycle	

		Module 1	Module 2	Module 3	Module 4 Lots of misconceptions exist around reversible and irreversible changes, including around the	Module 5	Module 6
Possible Misconce	eptions of vectors	the heavier the object the faster it falls, because it has more gravity acting on it orces always act in pairs which are equal and opposite mooth surfaces have no friction bjects always travel better on smooth surfaces a moving object has a force which is pushing it forwards and it stops when the pushing force ears out a non-moving object has no forces acting on it eavy objects sink and light objects float.	wears out • a non-moving object has no forces acting on it	• the Earth is flat • the Sun is a planet • the Sun rotes around the Earth • the Sun moves across the sky during the day • the Sun rises in the morning and sets in the evening • the Moon appears only at night • the Moon appears andy at might	permanence or impermanence of the change. There is contusion between Physical chemical changes and reversible and irreversible changes. They do not correlate simply. Chemical changes result in a new material being formed. These are mostly irreversible. Physical changes are often reversible but may be permanent. These do not result in new materials e.g. cutting a loaf of bread. It is still bread, but it is no longer a loaf. The shape, but not the material, has been changed. • thermal insulators keep cold in ar out • thermal insulators keep cold in a cut • solids dissolved in liquids have vanished and so you cannot get them back	• a baby grows in a mother's tummy • a baby is "made".	<ul> <li>all plants start out as seeds</li> <li>all plants have flowers</li> <li>plants that grow from bulbs do not have seeds</li> <li>only birds lay eggs.</li> </ul>
Possible Activitie	fo • I sh • I • I • F • E • N • C • F	investigate the effects of water resistance in a range of contexts e.g. dropping apes through water and pulling shapes, such as boats, along the surface of ater.	Investigate the effect of friction in a range of contexts e.g. trainers, bathmats, mats for a helter-skelter.     Investigate the effects of water resistance in a range of contexts e.g. dropping shapes through water and pulling shapes, such as boats, along the surface of water.     Investigate the effects of air resistance in a range of contexts e.g. parachutes, spinners, sails on boats.     Explore how levers, pulleys and gears work.     Nake a product that involves a lever, pulley or gear.     Create a timer that uses gravity to move a ball.     Research how the work of scientists such as Gallieo Galliei and Isaac Newton helped to develop the theory of gravitation.	<ul> <li>Use secondary sources to help create a model e.g. role play or using balls to show the moveme</li> <li>Use secondary sources to help make a model to show why day and night occur.</li> <li>Make first-hand observations of how shadows caused by the Sun change through the day.</li> <li>Make a sundit Research time zones.</li> <li>Consider the views of scientists in the past and evidence used to deduce shapes and movemer</li> </ul>	<ul> <li>Carry out comparative and fair tests involving non-reversible changes e.g. What affects the rate of rusting? What affects the amount of gas produced?</li> <li>Research new materials produced by chemists e.g. Spencer Silver (glue of sticky notes) and</li> </ul>	This unit is likely to be taught through direct instruction due to its sensitive nature, although children can carry out a research enquiry by asking an expert e.g. school nurse to provide answers to questions that have been filtered by the teacher.	Use secondary sources and, where possible, first-hand observations to find out about the life cycle of a range of animals.     Compare the gestation times for mammals and look for patterns e.g. in relation to size of animal are length of dependency after birth.     Look for patterns between the size of an animal and its expected life span.     Forw and observe plants that reproduce asexually e.g. strawberries, spider plants, potatoes.     Take cuttings from a range of plants e.g. African volet, mint.     Plant bulbs and then harvest to see how they multiply.     Use secondary sources to find out about pollination.
		Year 6 - Science	Year 6 - Science	Year 6 - Science	Year 6 - Science	Year 6 - Science	Year 6 - Science
Focus		Module 1 Living Things and Their Habitats	Module 2 Electricity	Module 3 Light	Module 4 Animals Including Humans	Module 5 Evolution and Inheritance (A - Scientists)	Module 6 Evolution and Inheritance (B)
Key Lea	rning ch	Describe how living things are classified into broad groups according to common observable branceferistics and based on milarities and differences, including micro-organisms, plants and animals.	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.     Compare and give reasons for variations in how components function, including the brightness of huits: the louriess of hurzers.	- December that light appears to travel in straight lines	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.     Recognise the impact of dire, exercise, drugs and iffestyle on the way their bodies function.     Describe the ways in which nutrients and water are transported within animals, including humans.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years aga.     Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.	<ul> <li>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.</li> </ul>
Knowled	m th bc ar ar ar fr bi in pl in fiv in fiv in c fiv in c fiv in c fiv in c fiv ar	ammais, Each group has common characteristics. Invertebrates can be divided into a imber of groups, so, snails and worms. ants can be divided broadly into two main groups: flowering plants; and non-flowering plants. Can give examples of animals in the ve vertebrate groups and some of the	hulbs can be changed by increasing or decreasing the number	Light appears to travel in straight lines, and we see objects when light from them goes into our eyes. The light may come directly from light sources, but for other objects some light must be reflected from the object into our yes for the object to be seen. Objects that block light (cen one tight) transprorent) will cause shadows. Because light travels in straight lines the shape of the shadow will be the same as the outline shape of the object.	The heart pumps blood in the blood vessels around to the lungs. Oxygen goes into the blood and corbon dioxide is removed. The blood goes back to the heart and is then pumped around the body. Nutrients, water and oxygen are transported in the blood to the muscles and other parts of the body where they are needed. As they are used, they produce carbon dioxide and other waste products. Carbon dioxide is carried by the blood back to the heart and then the cycle starts again as it is transported back to the lungs to be removed from the body. This is the human circulatory system. Dete, searcise, ggs and lifestyle have on impact on the way our bodies function. They can durt heart and lungs work, how likely we are to suffer from conditions such as diabetes, how clearly we think, and generally how fit and well we feel. Some conditions are caused by deficiencies in our diet e.g. lack of vitamins. This content is also included in PSHE. - Can draw a diagram of the circulatory system and label the parts and annotare it to show what the parts do - Produces a piece of writing that demonstrates the key knowledge e.g. explanation text, job description of the heart	environment changes rapidly, some variations of a species may not suit the new environment and will die. If the environment changes slowly, animals and plants with variations that are best suited survive in greater numbers to reproduce and pass their characteristics on to their young. Over time, these inherited characteristics become more dominant within the population. Over a very long period of time, these characteristics may be so different to how they were originally that a new species is created. This is evolution. Fossils give us evidence of what lived on the Earth millions of year ago and provide evidence to support the theory of evolution. More recently, scientists such as Darwin and Wallace observed how living things adapt to different environments to become distinct varieties with their own characteristics. • Can explain the process of evolution • Can give examples of how plants and animals are suited to an environment of can give examples of how plants and animals are suited to an environment • Can give examples of how plants and animals are suited to an environment • Can give examples of how plants and animals are suited to an environment • Can give examples of how plants and animals are suited to an environment • Can give examples of how no mimal or plarm has evolved over time e.g. penguin, peppered moth www.planassessment.com @ PLAN 2020 6 characteristics become more dominant within the population. Over a very long period of time, these characteristics may be so different to how they were originally that a new species is created. This is evolution. Fossils give us evidence of what lived on the Earth millions of year ago and provide evidence to support the	The parents. Due to sexual reproduction, the offspring are not identical to their parents and vary from each other. Plants and animals have characteristics that make them suited (adapted) to their environment. If the environment changes rapidly, some variations of a species may not suit the new environment and will die. If the environment changes slowly, animals and plants with variations that are best suited survive in greater numbers to reproduce and pass their characteristics on to their young. Over time, these inherited characteristics become more dominant within the population. Over a very long period of time, these revolution. Fossils give us evidence of what lived on the Earth millions of year ago and provide evidence to support the theory of evolution. 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This is evolution.
Skills	id • C pk • C th	entify unknown plants and animals Can cerate classification keys for ants and animals Can give a number of characteristics at explain why an animal belongs to	Can communicate structures of circuits using circuit diagrams with recognised symbols Can devise ways to measure brightness of bulbs, speed of motors, volume of a buzzer during a fair test	- Can explain how evidence from enquiries shows that light travels in straight lines - Can predict and explain, with diagrams or models as appropriate, - Scan predict and explain with diagrams or models as appropriate how ne of the official in can near view mimors or in a to issope - Can predict and explain, with diagrams or models as appropriate, how the shape of shadows can be varied - Can predict and explain, with diagrams or models as appropriate, how the shape of shadows can be varied - Can predict and explain, with diagrams or models as appropriate, how the shape of shadows can be varied - Can predict and explain, with diagrams or models as appropriate, how the shape of shadows can be varied - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, how the shape of shadows can be varied - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and explain, with diagrams or models as appropriate, - Can predict and - Can predict an	heart whilst writing conclusions for investigations - Can explain both the positive and negative effects of dier, exercise, drugs and lifestyle on the body	particular habitat	Can identify characteristics that will make a plant or animal suited or not suited to a particular habitat Can link the patterns seen in the model to real examples Can explain why the dominant colour of the peppered moth changed over a very short period of time
Possible Misconco	eptions • n	nuanouno die picino.	<ul> <li>larger-sized batteries make bulbs brighter</li> <li>a complete circuit uses up electricity</li> <li>components in a circuit that are closer to the battery get more electricity.</li> </ul>	• we see objects because light travels from our eyes to the object.	some bload in our bodies is blue and some bload is red     we just est food for energy     all far is bad for you     all dairy is good for you,     protein is good for you, so you can eat as much as you want     foods only contain far if you can see it     all drugs are bad for you.	hair or footballing skills, can be inherited • cavemen and dinosours were alive at the same time.	reach higher leaves and animals living in cold environments grow hick for during their life • offspring most resemble their parents of the same sex, so that sons look like fathers • all characteristics, including those that are due to actions during the parent's life such as dyed hair or footballing skills, can be inherited • cavemen and dinosaurs were alive at the same time.
Possible Activitie	Lii is • L • L s gr • C dii ke	Jse secondary sources to learn about the formal classification system devised by Carl nnoeus and why it important. Jse first-hand observation to identify characteristics shared by the animals in a group. Jse secondary sources to research the characteristics of animals that belong to a group. Jse information about the characteristics of an unknown animal or plant to assign it to a oup. Classify plants and animals, presenting this in a range of ways e.g. Venn diagrams, Carroll agrams and ys. Create an imaginary animal which has features from one or more groups.	<ul> <li>Make circuits to solve particular problems, such as a quiet and a loud burglar alarm.</li> <li>Carry out fair tests exploring changes in circuits.</li> </ul>	Explore different ways to demonstrate that light travels in straight lines e.g. shining a torch down a bent and straight hase pipe, shining a torch through different shaped holes in card.     Explore the uses of the behaviour of light, reflection and shadows, such as in periscope design, rear view mirrors and shadow puppets.	rates + observation over time - how long does it take my pulse rate to return to my resting pulse rate (recovery rate) + pattern seeking - exploring recovery rate for different groups of people.		- Design a new plant or animal to live in a particular habitat Use models to demonstrate evolution e.g. "Darwins" finches' bird beak activity Use secondary sources to find out about how the population of peppered moths changed during the industrial revolution Make observations of fossils to identify living things that lived on Earth millions of years ago Identify features in animals and plants that are passed on to offspring and explore this process by - considering the artificial breeding of animals or plants e.g. dogs Compare the ideas of Charles Darwin and Alfred Wallace an evolution Research the work of Mary Anning and how this provided evidence of evolution.