_	Topic Question: Why are objects made from materials?	different	Term - Autumn 1 and 2 Curriculum - B		
 Prior Knowledge Children will explore the natural world around them, making observations and drawing pictures of animals and plants They will know some similarities and differences between the natural world around them and contrasting environments They will draw on their experiences and what has been read in class They understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 		Key Vocabulary object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see-through		Books About Materials A whole class knowledge organiser for each	
 Future Learning Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2 - Uses of everyday materials) Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 - Uses of everyday materials) 		Stimulus Object treasure hunt in the grounds First hand experiences (enrichment) Practical experiences of handling objects and samples of materials. Materials hunts outdoors and around school.		World of Work Discussion about how and where things are made. Jobs where people make things – joiner,	
 National Curriculum PoS 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 rock. Describe the simple physical properties of a variety of everyday materials. 	All objects are made of one or more materials. Some objection different materials e.g. plastic, metal or wooden spondaterials can be described by their properties e.g. shiny, etc. Some materials e.g. plastic can be in different forms properties.	ects can be made bons. stretchy, rough	 Can label a picture or diagram of an object made from different materials Can describe the properties of different materials 		
 Compare and group together a variety of everyday materials on the basis of their simple physical properties 	Application of Key Skills		Possible evidence		
 Working Scientifically Pupils will learn the following through the teaching of the content: Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions. 	 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. 		 Can sort objects and materials using a range of properties Can choose an appropriate method for testing an object for a particular property Can use their test evidence to answer the questions about properties e.g. "Which cloth is the most absorbent?" 		

Year: 1/2 Subject: Science PoS: Seasonal Change Y1	Topic Question: How do we know what seas	on it is?	Term - Autumn	2 and ongoing Curriculum - B
		 Key Vocabulary Weather (sunny, rainy, windy, snowy etc.) Seasons (winter, summer, spring, autumn) Sun, sunrise, sunset, day length 		Outcome Weather forecast given by the children
 Future Learning Recognise that light from the sun can be dangerous and that Use the idea of the Earth's rotation to explain day and night - Earth and space) The seasons and the Earth's tilt, day length at different time 	and the apparent movement of the Sun across the sky. (Y5	Stimulus Film clip – Earth, s Going outside to e	easons and time xperience different weathers	World of Work Weather forecaster
 National Curriculum PoS Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies Working Scientifically Pupils will learn the following through the teaching of the content: Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions. 	 Key Knowledge In the UK, the day length is longest at mid-summer (about 16 hours) and gets shorter each day until mid-winter (about 8 hours) before getting longer again. The weather also changes with the seasons. In the UK, it is usually colder and rainier in winter, and hotter and dryer in the summer. The change in weather causes many other changes. Some examples are: numbers of minibeasts found outside; seed and plant growth; leaves on trees; and type of clothes worn by people. Can name the four seasons and identify when in the year occur. Can describe weather in different seasons over a year Can describe days as being longer (in time) in the summer shorter in the winter Can describe other features that change through the year occur. 		different seasons over a year ng longer (in time) in the summer and	
	 Application of Key Skills Collect information about the weather regularly tyear. Present this information in tables and charts to conveather across the seasons. Collect information, regularly throughout the year change with the seasons e.g. plants, animals, hun Present this information in different ways to com 	 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. Use the evidence gathe weather and changes in Use their evidence to desurroundings, e.g. them seasons Demonstrate their know weather forecast video, 		ed to describe the general types of day length over the seasons. scribe some other features of their selves, animals, plants that change over the ledge in different ways e.g. making a writing seasonal

present this to compare the seasons.

Year: 1/2 Subject: Science To PoS: Uses of materials Y2	opic Question: What is a material's superp	ower?	Term - Spring 1	Curriculum - B	
 Prior Knowledge 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 rock. 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 			Key Vocabulary Names of materials – wood, metal, plastic, glass, brick, rock, paper, cardboard Properties of materials - stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, opaque, transparent and translucent, reflective, non-reflective, flexible,		
 Future Learning Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. (Y3 - Rocks) Notice that some forces need contact between two objects, but magnetic forces can act at a distance. (Y3 - Forces and magnets) 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. (Y5 - Properties and changes of materials) Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. (Y5 - Properties and changes of materials) 		Materials bingo People v		World of Work People who make things eg. builder, dressmaker	
National Curriculum PoS	Key Knowledge	Possible evidence			
 Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. 	be changed by squashing, bending, twisting and stretching, squashing and twisting. For example, clay can be shaped by squashing, stretching etc. This can be a property of the material or depend on has been processed e.g. thickness		 Can use the words flexiber can be changed in shape 	oe of an object can describe the action used le and/or stretchy to describe materials that and stiff and/or rigid for those that cannot terial may come in different forms which	
	Application of Key Skills		Possible evidence	vidence	
 Working Scientifically Pupils will learn the following through the teaching of the content: Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions. 	Test the properties of materials for particular uses e.g. compare the stretchiness of fabrics to select the most appropriate for Elastigirl's costume, test materials for waterproofness to select the most appropriate for a rain hat		 Can begin to choose an appropriate method for testing a material for a particular property Can use their test evidence to select appropriate material for a purpose e.g. Which material is the best for a rain hat? 		

Year: 1/2 Subject: Science To PoS: Uses of Materials Y2	opic Question: <i>Do materials have secret str</i>	engths?	Term - Spring 2	Curriculum - B	
 Prior Knowledge 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 rock. 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 		Key Vocabulary rigid, shape, push/pushing, pull/puling, twist/twisting, squash/squashing, bend/bending, stretch/stretching		Outcome Video explanation of how materials can be changed	
 Compare and group together different kinds of rocks on the ba (Y3 - Rocks) Notice that some forces need contact between two objects, bu magnets) Compare and group together everyday materials on the basis of transparency, conductivity (electrical and thermal), and respon Give reasons, based on evidence from comparative and fair test metals, wood and plastic. (Y5 - Properties and changes of mate 	of their properties, including their hardness, solubility, se to magnets. (Y5 - Properties and changes of materials) ets, for the particular uses of everyday materials, including	Stimulus BBC Science Clip		World of Work People who make things eg. potter, car manufacturer	
ational Curriculum PoS	Key Knowledge		Possible evidence		
 Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Vorking Scientifically rupils will learn the following through the teaching of the content: Asking simple questions and recognising that they can be 	.All objects are made of one or more materials that are checause they have suitable properties for the task. For example, a water bottle is made of plastic because it is allowing you to see the drink inside and waterproof so the water. When choosing what to make an object from, the proper compared with the properties of the possible materials, is simple tests and classifying activities. A material can be suit different purposes and an object can be made of different	is transparent at it holds the ties needed are dentified through uitable for	properties and make a li use Can label a picture or dia materials	what material it is made from, identify its ink between the properties and a particular agram of an object made from different entify what properties a suitable material	
answered in different ways.	Application of Key Skills		Possible evidence		
 Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to Classify materials. Make suggestions about alternative materials for both suitable and unsuitable 		a purpose that are	 Can sort materials using Can explain using the ke suitable for a purpose 	a range of properties y properties why a material is suitable or n	

questions

• Gathering and recording data to help in answering questions.

Year: 1/2 Subject: Science T PoS: Animals Including Humans Y2	opic Question: Where do babies come from	?	Term - Summer 1	Curriculum - B
 Explore the natural world around them, making observations and drawing pictures of animals and plants Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 - Animals, including humans) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans) 		stages (examples	Diffspring, reproduction, growth, child, young/old tages (examples - chick/hen, baby/child/adult, aterpillar/butterfly)	
 Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. (Y3 - Animals, including humans) Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. (Y5 - Living things and their habitats) Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats) Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. (Y6 - Animals, including humans) 		Stimulus Eggs to observe Video resources First hand experie Butterfly gardens	nces (enrichment)	World of Work Doctor, nurse or vet
 Notice that animals, including humans, have offspring which grow into adults. Vorking Scientifically upils will learn the following through the teaching of the content: Asking simple questions and recognising that they can be 	Key Knowledge Animals, including humans, have offspring which grow into adults. In humans and some animals, these offspring will be young, such as babies or kittens, that grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults.			als, including humans, have offspring which he appropriate names for the stages
 answered in different ways. Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions. 	 The young of some animals do not look like their parents Application of Key Skills Ask people questions and use secondary sources the life cycles of some animals. Observe animals growing over a period of time e.governillars, a haby 	e.g. tadpoles.	Possible evidence Can describe, including using diagrams, the life cycle of some animals, including humans, and their growth to adults e.g. by creating a life cycle book for a younger child	

caterpillars, a baby.

Year: 1/2 Subject: Science T PoS: Animals including humans	opic Question: How can I be a healthy hero?		Term - Summer 2	Curriculum - B
 Prior Knowledge Explore the natural world around them, making observations and drawing pictures of animals and plants Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 - Animals, including humans) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans) 		Key Vocabulary exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta) Outcome Life cycle of a human		
 Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. (Y3 - Animals, including humans) Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. (Y5 - Living things and their habitats) Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats) Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. (Y6 - Animals, including humans) 		Fruit tasting	Fruit tasting Visit from a mum and baby World of Work Nurse, doctor, cook	
 Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. 	breathing that must be satisfied in order to survive. • Can state the important amounts of different ty		ds of animals, including humans, for survival ce for humans of exercise, eating the right does of food, and hygiene section of the Eatwell Guide	
 Working Scientifically Pupils will learn the following through the teaching of the content: Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to 	 Good hygiene is also important in preventing infections and illnesses. Application of Key Skills Ask questions of a parent about how they look after their baby Ask pet owners questions about how they look after their pet. Explore the effect of exercise on their bodies. Classify food in a range of ways, including using the Eatwell Gu Investigate washing hands, using glitter gel. 		 Possible evidence Can measure/observe how animals, including humans, grow. Show what they know about looking after a baby/animal by creat a parenting/pet owners' guide Explain how development and health might be affected by differing conditions and needs being met/not met 	

• Gathering and recording data to help in answering questions.