Vocabulary	Question	Trips/ Experiments/ Scientists	Key Concepts	Common Misconception s	Working Scientifically Skills	Disciplinary Knowledge	Oracy	Resources
Magnifying glass Habitat Grow Observe Investigate Findings Notice Weather	What does it mean to be a scientist?  What can I observe using my magnifying glass?  Can I gather data about the weather?  Who lives in our pond?  How many insects can I name?  Can I describe what is happening to our trees?  Can I draw a diagram of what is growing in our garden?	Maria Sibylla Merian (German artist, scientific illustrator, and naturalist)  Daniel Solander -Botanist who worked with Joseph Banks on Captain Cook's voyage around the World  Joseph Banks -Naturalist on Captain Cook's voyage around the World  Thomas Wyatt Turner - Botanist who studied plant disease  Poppy Okotcha -Horticulturalist interested in the connection between healthy	Forest school	Some children may think:  • plants are flowering plants grown in pots with coloured petals and leaves and a stem  • trees are not plants  • all leaves are green  • all stems are green  • a trunk is not a stem  • blossom is not a flower.	Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests Identify and classify  Gather and record data  Record and communicate their findings in a range of ways and begin to use simple scientific language  Gather and record data to help answer questions  Recognise findings  Use their observations and ideas to suggest answers to simple questions  Use their observations and ideas to suggest	Explore and compare the differences between things that are living, dead, and things that have never been alive.  Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.  Identify and name a variety of plants and animals in their habitats, including microhabitats.  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	I think I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesame I thinkbecause I predict thatbecause I think they will be alike because they are both  I think thisbecause I know this, so I think This will happen because	<ul> <li>Magnifying glasses</li> <li>Clipboards</li> <li>Thermometers</li> </ul>
					answers to simple questions			
	What grows in my garden?	Maria Sibylla Merian (German artist, scientific illustrator, and naturalist)	Plants	Some children may think:  • plants are flowering plants grown in pots	Ask simple questions when prompted Suggest ways of	Observe and describe how seeds and bulbs grow into mature plants	I think I thinkbecause	- seeds - soil
Seed Plant	What is growing in Foxhole's Forest school?	Daniel Solander -Botanist who worked with Joseph Banks on Captain Cook's voyage around		with coloured petals and leaves and a stem	answering a question  Ask simple questions	Find out and describe how plants need water, light and a suitable	(prior knowledge) I predictwill happen.	- plant pots
Stem	Do I know the difference between	the World  Joseph Banks -Naturalist on Captain Cook's voyage around the World		trees are not plants     all leaves are green	Recognise that questions can be answered in different ways	temperature to grow and stay healthy Identify and name a variety of common wild and garden plants,	They are the same because (comparing)	

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	deciduous and	Thomas Wyatt Turner		all stems are	Make relevant	including deciduous		
Petal	evergreen trees?	- Botanist who studied		green	observations using simple equipment	and evergreen trees	thinkbecauseand	
reidi		plant disease		a trunk is not a	Conduct simple tests,		I don't	
	Can I investigate			stem	with support	Identify and describe the basic structure of a	thinkbecauseand.	
Dagiduaus	_	Poppy Okotcha		blossom is not a	Identify and classify with	variety of common	will happen	
Deciduous	how seeds grow	-Horticulturalist interested		flower.	guidance	flowering plants,	because	
	into plants?	in the connection				including trees.	same	
F		between healthy			Observe closely, using		similardifferent.	
Evergreen	Can I identify the	- Plant growing			simple equipment Perform simple tests		1.01.2.1	
		experiment			Identify and classify		I thinkbecause	
	basic parts of a	СХРСППСП			lacinity and classity		I predict	
Fruit	plant and tree?				Gather and record		thatbecause	
		- Sort the			data		I think they will be	
	Can I explain	evergreen tree in					alike because they	
Vegetable		our garden			Record and		are both	
, 595155	that different				communicate their			
	plants can grow				findings in a range of		I think	
	in the same				ways and begin to use		thisbecause	
	environment?				simple scientific language		I know this, so I think	
	GITTE GITTE GITTE				Gather and record data			
					to help answer		This will happen	
					questions		because	
					Recognise findings			
					Use their observations			
					and ideas to suggest			
					answers to simple			
					questions			
					Use their observations			
					and ideas to suggest			
					answers to simple			
	Is a chocolate	Becky Schroeder	Evenyday	Some children may think:	answers to simple questions	Distinguish between an	I think	different materials
	Is a chocolate	Becky Schroeder - Inventor of Glo-sheets	Everyday	Some children may think:	answers to simple	Distinguish between an object and the material	I think	-different materials
Material	teapot a good	- Inventor of Glo-sheets which she patented as a		only fabrics are	answers to simple questions  Ask simple questions when prompted		I thinkbecause	-different materials
Material		- Inventor of Glo-sheets	Everyday materials	<ul> <li>only fabrics are materials</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of	object and the material	I thinkbecause (prior knowledge)	-different materials
Material	teapot a good	- Inventor of Glo-sheets which she patented as a		only fabrics are	answers to simple questions  Ask simple questions when prompted	object and the material	I thinkbecause (prior knowledge) I predictwill	-different materials
	teapot a good idea?	- Inventor of Glo-sheets which she patented as a		only fabrics are materials •     only building	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question	object and the material from which it is made.  Identify and name a variety of everyday	I thinkbecause (prior knowledge) I predictwill happen.	-different materials
Material Property	teapot a good idea?  Can I identify	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of	object and the material from which it is made.  Identify and name a variety of everyday materials, including	I thinkbecause (prior knowledge) I predictwill happen. They are the same	-different materials
	teapot a good idea?  Can I identify different	- Inventor of Glo-sheets which she patented as a		only fabrics are materials •     only building materials are materials	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions	object and the material from which it is made.  Identify and name a variety of everyday materials, including wood, plastic, glass,	I thinkbecause (prior knowledge) I predictwill happen. They are the same because	-different materials
Property	teapot a good idea?  Can I identify	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that	object and the material from which it is made.  Identify and name a variety of everyday materials, including	I thinkbecause (prior knowledge) I predictwill happen. They are the same	-different materials
	teapot a good idea?  Can I identify different	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions	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.	I thinkbecause (prior knowledge) I predictwill happen. They are the same because	-different materials
Property	teapot a good idea?  Can I identify different materials and	- Inventor of Glo-sheets which she patented as a		only fabrics are materials     only building materials are materials     only writing materials are materials     the word 'rock' describes an	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)	-different materials
Property Obstacle	teapot a good idea?  Can I identify different materials and their uses?	- Inventor of Glo-sheets which she patented as a		only fabrics are materials     only building materials are materials     only writing materials are materials     the word 'rock' describes an object rather	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseand	-different materials
Property	teapot a good idea?  Can I identify different materials and their uses?  Can I select the	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseand I don't	-different materials
Property Obstacle	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseand I don't thinkbecauseand.	-different materials
Property Obstacle Construction	teapot a good idea?  Can I identify different materials and their uses?  Can I select the	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment	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.	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen	-different materials
Property Obstacle	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests,	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen because	-different materials
Property Obstacle Construction	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen because	-different materials
Property Obstacle Construction	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen because	-different materials
Property Obstacle Construction	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseand I don't thinkbecauseandwill happen becausesamesimilardifferent.	-different materials
Property Obstacle Construction Stretchy	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using	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	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesimilardifferent. I thinkbecause	-different materials
Property Obstacle Construction	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment	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.	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesimilardifferent. I thinkbecause	-different materials
Property Obstacle Construction Stretchy	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests	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.	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen because because I thinkbecause I thinkbecause I predict thatbecause	-different materials
Property Obstacle Construction Stretchy Elastic	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of materials?	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment	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.  Identify and compare the suitability of a variety	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesame I thinkbecause I predict thatbecause I think they will be	-different materials
Property Obstacle Construction Stretchy	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of materials?  Do I understand	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests Identify and classify	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.  Identify and compare	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesame I thinkbecause I think they will be alike because they	-different materials
Property Obstacle Construction Stretchy Elastic	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of materials?  Do I understand that materials	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests Identify and classify  Gather and record	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.  Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock,	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesame I thinkbecause I predict thatbecause I think they will be	-different materials
Property Obstacle Construction Stretchy Elastic	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of materials?  Do I understand	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests Identify and classify	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.  Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesimilardifferent.  I thinkbecause I predict thatbecause I think they will be alike because they are both	-different materials
Property Obstacle Construction Stretchy Elastic Force	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of materials?  Do I understand that materials	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests Identify and classify  Gather and record data  Record and	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.  Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock,	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesimilardifferent.  I thinkbecause I predict thatbecause I think they will be alike because they are both	-different materials
Property Obstacle Construction Stretchy Elastic	teapot a good idea?  Can I identify different materials and their uses?  Can I select the right materials to build a bridge?  Can I explore and test the stretchiness of materials?  Do I understand that materials can change	- Inventor of Glo-sheets which she patented as a		<ul> <li>only fabrics are materials</li> <li>only building materials are materials</li> <li>only writing materials are materials</li> <li>the word 'rock' describes an object rather than a material</li> <li>solid' is another</li> </ul>	answers to simple questions  Ask simple questions when prompted  Suggest ways of answering a question  Ask simple questions  Recognise that questions can be answered in different ways  Make relevant observations using simple equipment Conduct simple tests, with support Identify and classify with guidance  Observe closely, using simple equipment Perform simple tests Identify and classify  Gather and record data	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.  Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard	I thinkbecause (prior knowledge) I predictwill happen. They are the same because (comparing)  I thinkbecauseandI don't thinkbecauseandwill happen becausesamesimilardifferent.  I thinkbecause I predict thatbecause I think they will be alike because they are both	-different materials

	How are materials suitable for different purposes?				ways and begin to use simple scientific language Gather and record data to help answer questions	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	 This will happen because	
					Recognise findings  Use their observations and ideas to suggest answers to simple			
					questions  Use their observations and ideas to suggest answers to simple			
	What am I made from?	Becky Schroeder - Inventor of Glo-sheets	Everyday	Some children may think:  only fabrics are	questions  Ask simple questions when prompted	Distinguish between an object and the material	I think I thinkbecause	- different materials
Material		which she patented as a 12-year-old	materials	materials • only building	Suggest ways of	from which it is made.	(prior knowledge) I predictwill	
Fabric	Can I identify and name a variety of everyday			materials are materials  only writing materials are materials	answering a question  Ask simple questions  Recognise that	Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.	happen. They are the same because (comparing)	
Wood	materials?  Can I distinguish			the word 'rock'     describes an     object rather     than a material	questions can be answered in different ways	Describe the simple physical properties of a variety of everyday	l thinkbecauseand l don't	
Plastic	between an object and the			<ul> <li>solid' is another word for hard.</li> </ul>	observations using simple equipment Conduct simple tests,	materials.  Compare and group	thinkbecauseand. will happen because	
Metal	material it is made from? Can I identify objects that are				with support Identify and classify with guidance Observe closely, using	together a variety of everyday materials on the basis of their simple physical properties.	samesimilardifferent. I thinkbecause	
Property	natural and those that are manmade?				simple equipment Perform simple tests Identify and classify	Identify and compare the suitability of a variety of everyday materials, including wood, metal,	I predict thatbecause I think they will be alike because they are both	
Opaque	Can I predict and identify if an object will float or sink?				Record and communicate their findings in a range of	plastic, glass, brick, rock, paper and cardboard for particular uses  Find out how the shapes	I think thisbecause I know this, so I think	
Transparent	Can I explore				ways and begin to use simple scientific language Gather and record data	of solid objects made from some materials can be changed by squashing, bending,	This will happen because	
	which materials are best for different				to help answer questions  Recognise findings	twisting and stretching.		
	objects?				Use their observations and ideas to suggest answers to simple questions			
					Use their observations and ideas to suggest answers to simple questions			

	Will my sunflower	Maria Sibylla Merian	Dlants	Some children may think:	Ask simple questions	Observe and describe	I think	2225
	be the tallest?	(German artist, scientific	Plants		when prompted	how seeds and bulbs	I thinkbecause	- seeds
		illustrator, and naturalist)		<ul> <li>an animal's habitat is like its</li> </ul>	Suggest ways of	grow into mature plants	(prior knowledge) I predictwill	- bulbs
Photosynthesi	Do I know the	<b>Daniel Solander</b> -Botanist who worked with		'home'	answering a question	Find out and describe	happen.	- soil
S	difference	Joseph Banks on Captain		<ul><li>plants and</li></ul>	Ask simple questions	how plants need water, light and a suitable	They are the same	
	between seeds	Cook's voyage around the World		seeds are not	Recognise that	temperature to grow	because (comparing)	
Carbon	and bulbs?			alive as they cannot be seen	questions can be	and stay healthy	(Sompaning)	
dioxide	What do plants	Joseph Banks -Naturalist on Captain Cook's		to move	answered in different ways	Identify and name a	think booking and	
GIONIGO	need to grow	voyage around the World		<ul> <li>fire is living</li> </ul>	-	variety of common wild	thinkbecauseand I don't	
0.0.000	and stay	Thomas Wyatt Turner			Make relevant observations using	and garden plants, including deciduous	thinkbecauseand.	
Oxygen	healthy?	- Botanist who studied		arrows in a food     shair mage	simple equipment	and evergreen trees	will happen	
		plant disease		chain mean 'eats'.	Conduct simple tests, with support	Identify and describe	because	
Glucose	Describe the life	Poppy Okotcha			Identify and classify with	the basic structure of a	similardifferent.	
	cycle of a plant?	-Horticulturalist interested in the connection			guidance	variety of common	I thinkbecause	
Pollination		between healthy			Observe closely, using		I predict	
	l				simple equipment	<u> </u>		

Germination Crop Forests Forests  What's the efficience believed and secure of the control of th					1		Ta	T	
Comministry Crop Forests Forests  Whet's the difference between the weether and second or source.  Season Spring Summer  Autumn Winter  Hibernate Hibernate Hibernate Hibernate Hibernate Hibernate Hibernate  Forests  Autumn District  What's the difference between the weether and second.  Summer  Autumn District  What's the difference between the weether and second.  Summer  Autumn District  Autumn Winter  Autumn District  D		Can I observe				Perform simple tests	flowering plants,	thatbecause	
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Year 1 and 2 A

	and ideas to suggest answers to simple questions	
	Use their observations and ideas to suggest answers to simple questions	

Vocabulary	Question	Trips/ Experiments	Key Concepts	Common Misconception	Working scientifically	Disciplinary Knowledge	Oracy	Resources
Scientist Seasons Change Materials Properties of materials Plants Identify	What does it mean to be a scientist?  What clues can you find about what season it is?  What plants can you identify?  Can I build shelter using my knowledge of materials?  Can I design some wellies for a toy using my knowledge of materials?				Ask relevant questions when prompted Use different types of scientific enquiry to answer them.  Set up simple and practical enquiries, comparative and fair tests with some support.  Make systematic and careful observations, using simple equipment  Use standard units when taking measurements  With modelling and guidance, gather, record, classify and present data in a variety of ways to help to answer questions With prompting, use various ways of recording, grouping and displaying evidence and suggest how findings may be tabulated  With prompting, suggest conclusions from enquiries  Suggest how findings could be reported Suggest possible improvements or further questions to investigate  Ask relevant questions. Use different types of scientific enquiries to answer their questions  Set up simple and practical enquiries, comparative and fair tests  Make systematic and careful observations using a range of equipment, including thermometers and data		I predict thatbecausehowever/meanwhile/t herefore/also	- Materials
					loggers Take accurate measurements using standard units, where appropriate			

					Gather, record, classify and present data in a variety of ways to help to answer questions Record findings using simple scientific language, drawings and labelled diagrams Record findings using keys, bar charts, and tables  Report on findings from enquiries, including oral and written explanations, of results and conclusions  Report on findings from enquiries using displays or presentations  Identify differences, similarities or changes related to simple scientific ideas and processes  Use straightforward scientific evidence to answer questions or to support their findings  Use results to draw simple conclusions, make predictions for new values, suggest improvements, and raise further question.			
Force	Do opposites attract?	William Gilbert -Doctor who developed the theory of magnetism	Forces and magnets	Some children may think:  • 'solid' is another word for hard or opaque	Ask relevant questions when prompted Use different types of scientific enquiry to	Compare how things move on different surfaces - notice that some forces need	I predict thatbecausehowever/meanwhile/t herefore/also	- magnets - materials
Friction	What is friction and how does it work?	Leonardo Da Vinci - First person to plan and carry out tests on friction  Eric Laithwaite		<ul> <li>solids are hard and cannot break or change shape</li> </ul>	answer them.  Set up simple and practical enquiries, comparative and fair	contact between two objects, but magnetic forces can act at a distance - observe how magnets attract or repel	I predict thatafter / as a result of	
Motion	Is friction the same on all	-Electrical Engineer who developed the technology behind the		easily and are often in one piece substances	tests with some support.  Make systematic and	each other and attract some materials and not others	This is probable	
Texture	surfaces and objects?	Maglev train		made of very small particles like sugar or	careful observations, using simple equipment  Use standard units when	Compare and group together a variety of	becauseandare	
Magnet	What makes			sand cannot be solids • particles in	taking measurements  With modelling and	everyday materials on the basis of whether they are attracted to a	different in thattherefore as a result	
Attract	magnets special? (Repel and attract)			liquids are further apart than in solids and they take	guidance, gather, record, classify and present data in a variety of ways to help to	magnet, and identify some magnetic materials	Afterl predict that	
Repel	What materials are magnetic			up more space  when air is pumped into	answer questions With prompting, use various ways of	Describe magnets as having two poles - predict whether two	The outcome will bebecause  What do you think? How	
Magnetic field	and how do you know?			balloons, they become lighter • water in different forms –	recording, grouping and displaying evidence and suggest how	magnets will attract or repel each other, depending on which poles are facing	did you come to that prediction?	

	What impact	ste	eam, water,	findings may be	Beco	ause I know	
	does distance		e – are all	tabulated	that	l know	
Non-contact	and surface		ferent	With prompting suggest	 Duo	to this	
force		SUI	bstances	With prompting, suggest conclusions from	knov		
10100	have on a			enquiries	that		
	magnet?				All e	vents lead on	
Magnetism				Suggest how findings	to	because	
/viagnonsin				could be reported	Dece of	ad an	
				Suggest possible improvements or further	pred	ed onl	
Compass				questions to			
				investigate	Afte	r hearing all the	
						lence, I think	
Orienteering				Ask relevant questions. Use different types of		will	
				scientific enquiries to	hap	реп	
				answer their questions	May	be it's because	
				Set up simple and			
				practical enquiries, comparative and fair			
				tests			
				1.00.0			
				Make systematic and			
				careful observations			
				using a range of equipment, including			
				thermometers and data			
				loggers			
				Take accurate			
				measurements using			
				standard units, where appropriate			
				арргорнаго			
				Gather, record, classify			
				and present data in a			
				variety of ways to help to answer questions			
				Record findings using			
				simple scientific			
				language, drawings and			
				labelled diagrams Record findings using			
				keys, bar charts, and			
				tables			
				Report on findings from enquiries, including oral			
				and written			
				explanations, of results			
				and conclusions			
				Papart on findings from			
				Report on findings from enquiries using displays			
				or presentations			
				Identify differences,			
				similarities or changes related to simple			
				scientific ideas and			
				processes			
				Use straightforward			
				scientific evidence to answer questions or to			
				support their findings			
				Use results to draw			
				simple conclusions,			

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					make predictions for			
					new values, suggest improvements, and raise			
					further question.			
		<u> </u>						
	Why do we have	Wilhelm Roentgen	Animals	Some children may think:	Ask relevant questions	Identify that animals,	I predict	- food with labels
	skeletons?	-Physicist who discovered		<ul> <li>certain whole</li> </ul>	when prompted	including humans, need	thatbecause	
Vitamins	JICICIOII3:	x-rays	including	food groups like	Use different types of	the right types and	however/meanwhile/t	
		Marie Curie	humans	fats are 'bad'	scientific enquiry to answer them.	amount of nutrition, and that they cannot make	herefore/also	
	What foods do	-Physicist who invented	1101110113	for you	GIBWEI IIICIII.	their own food; they get	•••	
Mineral	animals eat and	the first mobile x-ray		<ul> <li>certain specific foods, like</li> </ul>	Set up simple and	nutrition from what they	I predict	
	does it differ?	machine to treat soldiers		cheese are also	practical enquiries,	eat	thatafter / as	
		wounded on the		'bad' for you	comparative and fair		a result of	
	Do different	battlefield in WWI		diet and fruit	tests with some support.	Identify that humans		
Nutrition label		A della Danda		drinks are	A A color or sold one cold or core of	and some other animals	Their is year also saled a	
MOHINOH IGDEL	foods contain dif	Adelle Davis -Biochemist & Nutritionist		'good' for you	Make systematic and careful observations,	have skeletons and	This is probable because	
	ferent nutrients?	who linked health and		snakes are	using simple equipment	muscles for support,	DCCU036	
Palanaad		diet		similar to worms,	Same ambio odolbinoni	protection and	and are	
Balanced	What foods do I			so they must	Use standard units when	movement	andare	
		Michelle Williams		also be	taking measurements		thattherefore as	
[ Francisco   1 - 1 - 1 - 1	need to eat in	-Radiologist		invertebrates		Describe the simple	a result	
Endoskeleton	order to stay	NACHE arms D =		invertebrates	With modelling and	functions of the basic		
	healthy?	William Beaumont		have no form of	guidance, gather,	parts of the digestive system in humans.	Afterl predict	
	, ·	-Surgeon who first observed and studied		skeleton.	record, classify and present data in a variety	o <sub>1</sub> storm in Horniums.	that	
	What role do	human digestion as it			of ways to help to	Identify the different	The contract will	
Radius		occurs in the stomach			answer questions	Identify the different types of teeth in humans	The outcome will	
Nadios	muscles play in				With prompting, use	and their simple	bebecause	
	the body and	Washington & Lucius			various ways of	functions.	What do you think? How	
Tibia	why are they	Sheffield			recording, grouping and		did you come to that	
TIDIO	important?	-Dentists who invented			displaying evidence	Construct and interpret	prediction?	
	inpondin;	toothpaste in a tube			and suggest how findings may be	a variety of food chains,	<u> </u>	
Rib cage	Marcala (Company)	Paul Sharpe			tabulated	identifying producers,	Because I know	
IVID CARE	Why do we need	-Bioengineer who studies			1.2.0.0.0.0	predators and prey.	thatl know	
	a skeleton?	how to regrow teeth if			With prompting, suggest		Due to this	
Snine		they become damaged			conclusions from		know	
Spine					enquiries		that	
					Suggest how findings		All events lead on	
Hamstrings					Suggest how findings could be reported		tobecause	
Hamstrings					Suggest possible		Parad or	
					improvements or further		Based onl predict	
hioons					questions to		that	
biceps					investigate		After hearing all the	
					Aslamata 1 "		evidence, I think	
					Ask relevant questions. Use different types of		that will	
					scientific enquiries to		happen	
					answer their questions		Maybo itto boos:	
					1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Maybe it's because	
					Set up simple and			
					practical enquiries,			
					comparative and fair			
					tests			
					Make systematic and			
					careful observations			
					using a range of			
					equipment, including			
					thermometers and data			
					loggers			
					Take accurate			
					measurements using			
					standard units, where appropriate			
					appropriate			
	ı	l l		1	I .	1	l .	<u>I</u>

					Gather, record, classify and present data in a variety of ways to help to answer questions Record findings using simple scientific language, drawings and labelled diagrams Record findings using keys, bar charts, and tables  Report on findings from enquiries, including oral and written explanations, of results and conclusions  Report on findings from enquiries using displays or presentations  Identify differences, similarities or changes related to simple scientific ideas and processes  Use straightforward scientific evidence to answer questions or to support their findings  Use results to draw simple conclusions, make predictions for new values, suggest improvements, and raise further question.			
Districtive	What is the journey of food	-Physicist who discovered	Animals	Some children may think:  • certain whole	Ask relevant questions when prompted Use different types of	Identify that animals, including humans, need	I predict thatbecausebecause	
Digestive	through my	x-rays	including	food groups like fats are 'bad'	scientific enquiry to	the right types and amount of nutrition, and	herefore/also	
system	body?	Marie Curie -Physicist who invented	humans	for you	answer them.	that they cannot make their own food; they get		
	Are all animals!	the first mobile x-ray machine to treat soldiers		<ul> <li>certain specific foods, like</li> </ul>	Set up simple and practical enquiries,	nutrition from what they eat	I predict thatafter / as	
Esophagus	Are all animals' predators or	wounded on the battlefield in WWI		cheese are also 'bad' for you	comparative and fair tests with some support.		a result of	
Saliva	prey?			<ul> <li>diet and fruit drinks are</li> </ul>		Identify that humans and some other animals	This is probable	
SUIIVU	What are the	Adelle Davis -Biochemist & Nutritionist		'good' for you	Make systematic and careful observations,	have skeletons and muscles for support,	This is probable because	
Daristalais	names of the	who linked health and diet		<ul> <li>snakes are similar to worms,</li> </ul>	using simple equipment	protection and	and see	
Peristalsis	main body parts			so they must also be	Use standard units when	movement	different in	
	associated with	Michelle Williams -Radiologist		invertebrates	taking measurements	Describe the simple	thattherefore as a result	
Incisors	the digestive	William Beaumont		<ul> <li>invertebrates have no form of</li> </ul>	With modelling and guidance, gather,	functions of the basic parts of the digestive		
Molars	system?	-Surgeon who first observed and studied		skeleton.	record, classify and present data in a variety	system in humans.	Afterl predict that	
Enamel	What is the	human digestion as it occurs in the stomach			of ways to help to answer questions	Identify the different types of teeth in humans	The outcome will	
LIMITIO	function of each body part in the	Washington & Lucius			With prompting, use	and their simple	bebecause	
Fluorido	eating process?	Sheffield			various ways of recording, grouping and	functions.	What do you think? How did you come to that	
Fluoride		-Dentists who invented toothpaste in a tube			displaying evidence and suggest how	Construct and interpret	prediction?	
					2009900111011	a variety of food chains,		

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Consumer	What happens	Paul Sharpe		findings may be	identifying producers,	Because I know	
00110011101	when humans	-Bioengineer who studies		tabulated	predators and prey.	thatl know	
		how to regrow teeth if					
Dradator	eat and	they become damaged		With prompting, suggest		Due to this	
Predator	how? What role			conclusions from		know	
	do teeth play in			enquiries		that	
						All events lead on	
Tundra	eating?			Suggest how findings		tobecause	
				could be reported		David and a second	
	How are our			Suggest possible		Based onl predict	
hide				improvements or further questions to		that	
Tilde	teeth similar and			investigate		After hearing all the	
	different to other			iiivesiigale		evidence, I think	
	mammals/			Ask relevant questions.		thatwill	
				Use different types of		happen	
	species?			scientific enquiries to			
				answer their questions		Maybe it's because	
				•			
				Set up simple and			
				practical enquiries,			
				comparative and fair			
				tests			
				Make systematic and			
				careful observations			
				using a range of			
				equipment, including			
				thermometers and data			
				loggers			
				Take accurate			
				measurements using standard units, where			
				appropriate			
				Gather, record, classify			
				and present data in a			
				variety of ways to help			
				to answer questions			
				Record findings using			
				simple scientific			
				language, drawings and			
				labelled diagrams			
				Record findings using			
				keys, bar charts, and			
				tables			
				Report on findings from			
				enquiries, including oral			
				and written			
				explanations, of results and conclusions			
				aria coriciosioris			
				Report on findings from			
				enquiries using displays			
				or presentations			
				Identify differences,			
				similarities or changes			
				related to simple			
				scientific ideas and			
				processes			
				11			
				Use straightforward			
				scientific evidence to			
				answer questions or to			
				support their findings			
				Use results to draw			
				simple conclusions,			
-			•	•	•		

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					make predictions for			
					new values, suggest			
					improvements, and raise			
					further question.			
	Solid, liquid or	Joseph Priestley	Clada at	Some children may think:	Ask relevant questions	Compare and group	I predict	
		-Clergyman who	States of	'solid' is another	when prompted	materials together,	thatbecause	
Thermometer	gas?	discovered oxygen at	matter	word for hard or	Use different types of	according to whether	however/meanwhile/t	
		about the same time as	manor	opaque	scientific enquiry to	they are solids, liquids or	herefore/also	
	What are the	Carl Wilhelm Scheele		solids are hard	answer them.	gases.		
Malting point				and cannot				
Melting point	properties of	Carl Wilhelm Scheele		break or	Set up simple and	Observe that some	I predict	
	solids, liquids and	-Chemist who discovered		change shape	practical enquiries,	materials change state	thatafter / as	
	gases?	oxygen at about the		easily and are	comparative and fair	when they are heated	a result of	
Freezing point	G	same time as Joseph		often in one	tests with some support.	or cooled, and measure		
		Priestley		piece	Make systematic and	or research the	This is probable	
	How does	Daniel Fahrenheit		<ul> <li>substances</li> </ul>	careful observations,	temperature at which	pecanse	
Boiling point	temperature	-Physicist who invented		made of very	using simple equipment	this happens in degrees	Decuose	
· 9  - 0 · · · ·	affect the state	the Fahrenheit		small particles	23118 2111ble edolbitietii	Celsius (°C).	aua al	
	of matter?	temperature scale and		like sugar or	Use standard units when		andare	
Solid	or maners	the thermometer		sand cannot be	taking measurements	Identify the part played	thattherefore as	
JOHA				solids		by evaporation and	a result	
	Is water a solid,	Anders Celsius		<ul> <li>particles in</li> </ul>	With modelling and	condensation in the	G 103011	
Liquid	liquid or a gas?	-Astronomer who invented		liquids are	guidance, gather,	water cycle and	Afterl predict	
Liquid	"Hora or a gast	the degrees Celsius		further apart	record, classify and	associate the rate of	that	
		temperature scale		than in solids and they take	present data in a variety	evaporation with		
<b>O</b> = 1	How does	John Boyel Donley		up more space	of ways to help to	temperature	The outcome will	
Gas	evaporation and	John Boyd Dunlop -Ilnventor of the		· · · · · · · · · · · · · · · · · · ·	answer questions		bebecause	
	condensation	pneumatic tyre		<ul> <li>when air is pumped into</li> </ul>	With prompting, use various ways of			
_		prieditialic tyle		balloons, they	recording, grouping and		What do you think? How	
Evaporation	occn.			become lighter	displaying evidence		did you come to that	
'				water in	and suggest how		prediction?	
	What is the water			different forms –	findings may be		Because I know	
Particles	cycle and how			steam, water,	tabulated		thatl know	
. 3.110103	•			ice – are all			KIOW	
	does it affect the			different	With prompting, suggest		Due to this	
Condensatio	state of matter?			substances	conclusions from		know	
Condensario					enquiries		that	
n					Suggest how findings		All events lead on	
					Suggest how findings could be reported		tobecause	
					Suggest possible			
Water vapour					improvements or further		Based on	
a.c. , apool					questions to		predict	
					investigate		that After hearing all the	
Substance							evidence, I think	
3003101100					Ask relevant questions.		thatwill	
					Use different types of		happen	
					scientific enquiries to			
					answer their questions		Maybe it's because	
					Set up simple and			
					practical enquiries,			
					comparative and fair			
					tests			
					Make systematic and			
					careful observations			
					using a range of			
					equipment, including			
					thermometers and data			
					loggers Take accurate			
					measurements using			
					standard units, where			
					appropriate			
		1		I			1	

to answer questions Record indings using simple sclerific language, drowings and Record indings and Record indings and Record indings using key, bar charts, and tables Report on findings from enquires, including oral and written explanations, of results and conclusions Report on findings from enquires using displays or presentations Identify differences, similarities or changes Report on findings from enquires using displays or presentations Identify differences, similarities or changes Report on findings from enquires using displays or presentations Identify differences, similarities or changes Report on findings Use results to drow simple conclusions, make predictions for new values, suggest improvements, and rates further question.	
Igneous rocks  What's beneath my feet?  William Smith -Engineer & Geologist who developed the science of rock strata  Rocks  Some children may think:  rocks are all hard in nature  together different kinds of rocks on the basis of their appearance and scientific enquiry to scientific enquiry to their appearance and scientific enquiry to scientific enquiry to their appearance and scientific enquiry to scientific enquiry to their appearance and scientific enquiry to the scientific	
Intrusive   Where do rocks   answer them.   simple physical	
igneous rocks come from?  James Hutton -Scientist who studied -Scientist who studied -Scientist who studied	
rocks and the effects of brick are rocks practical enquiries, Describe in simple terms thatafter / as	
Extrusive   What type of them, such as rain, running   • materials which tests with some support.   How loss is all formed when things that have	
igneous rocks are mere; water, tides, and volcances, on the volcances, on the volcances, on the	
What kinds of development of the Earth shaped to use, careful observations, because	
Magna rocks can be Florence Bascom granite worktop, distribute equipment Recognise that soils are	
found in the found in the design and formation are not rocks as they are no believe an argument and formation are not rocks as they are no believe as a superscent.	
local fine origin and formation longer longe	
Sealmentary environment?	
rock  Anjana Khatwa  Anjana Khatwa  O alasiish ka a allasti  Anjana Khatwa  O alasiish ka a allasti  After	
How are Geologist who collects old bits of present data in a variety	
Metamorphic rocks impacted by weather and by weather and beach and studies them beach and studies them beach and studies them because the beach and studies	
old a fossil is an with prompting, use	
rock change over time? creatures that lived in the sea and on Earth over 150 actual piece of the extinct recording, grouping and what do you think? How did you come to that	
million years ago  million years ago  animal or plant displaying evidence prediction?	
Weathering -Brianna Green and suggest how	

	What are fossils	Biogeochemist who	• soil and	findings may be	Because I know
	and how are	collects soil to see what	compost ar	e the tabulated	thatl know
Acid rain	they created?	kind of living things are in it to study the effects of	same thir	g. With prompting, suggest	Due to this
	l liley credied?	climate change		conclusions from	know
<b>-</b>		Cimilaro criarigo		enquiries	that
Erosion	What is soil made				All events lead on
	from and what			Suggest how findings	tobecause
Fassil	can we learn			could be reported	Deve di an
Fossil	from it?			Suggest possible improvements or further	Based onl predict
				questions to	that
Dagamaga				investigate	After hearing all the
Decompose					evidence, I think
				Ask relevant questions.	thatwill
Fragmonts				Use different types of scientific enquiries to	happen
Fragments				answer their questions	Maybe it's because
				Set up simple and	
				practical enquiries, comparative and fair	
				tests	
				Make systematic and	
				careful observations	
				using a range of equipment, including	
				thermometers and data	
				loggers	
				Take accurate	
				measurements using	
				standard units, where appropriate	
				арргорнаю	
				Gather, record, classify	
				and present data in a	
				variety of ways to help to answer questions	
				Record findings using	
				simple scientific	
				language, drawings and	
				labelled diagrams Record findings using	
				keys, bar charts, and	
				tables	
				Report on findings from	
				enquiries, including oral and written	
				explanations, of results	
				and conclusions	
				Report on findings from	
				enquiries using displays	
				or presentations	
				Identify differences,	
				similarities or changes related to simple	
				scientific ideas and	
				processes	
				Use straightforward	
				scientific evidence to answer questions or to	
				support their findings	
				Use results to draw	
				simple conclusions,	

Year 3 and 4 A
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	make predictions for new values, suggest improvements, and raise further question.	

Vocabulary	Question	Trips/	Key	Common	Substantive	Disciplinary	Oracy	Resources
		Experiments	Concepts	Misconception s	Knowledge	Knowledge		
Microhabitat	What does it	Outdoor	Forest school	All insects can	Plan different types of scientific enquiries to	Recognise the impact	I predict that	Plastic bottle
	mean to be a scientist?	minibeast hunt		live anywhere.	answer questions.	of diet, exercise,	I believe / I	Magnifying glasses
Minibeast	acielliai:	and			With prompting,	drugs and lifestyle on the	think might / or	Pan
	Can I investigate	identification		Microhabitats	recognise and	way their bodies	If Then	Firestaring kit
Food chain	microhabitats for minibeasts?			are just small	control variables where	function.	X has happened,	
	11III IIDEU313 9	Soil separation		habitats.	necessary.	Identify that most	therefore I think	
Clay	Can I create a	experiment			Recognise and	things live in habitats	It is true	
	food chain for			All food chains	control variables where	to which they are suited	Can we prove	
Sand	creatures in Foxhole's	Firepit melting		start with an	necessary.	and describe how	that	
	Garden?	and gas		animal.	Select, with	different habitats provide for the basic	In conclusion	
Silt					prompting,	needs of different	I would like to prove / disprove Perhaps	
	Can I investigate different types of			Predators eat	and use appropriate equipment to take	kinds of animals and plants,	the reason is	
Peat	soil?			everything	readings	and how they	In light of	
				smaller than	Take precise measurements using	depend on each other.	predict	
Chalk	Can I make my			them.	standard units Begin to understand	dentify and name a	There is a high / low	
	own compass?				the need for repeat	variety of plants and	probability	
Loam	Can I exercise			Food chains	readings.	animals in their habitats, including	The chances of/The	
_	and move all of			are always	Take and process	micro- habitats.	likelihood of/Due to the fact that/Upon	
Evaporate	muscles outside?			straight.	repeat readings Record data and	Describe how animals obtain their food from	consideration of the relevant factors	
	Can I use the				results Record data using	plants and other animals, using the	relevant factors	
Condensatio	firepit to explore			All soil is just	labelled diagrams,	idea	Based on the evidence I	
n	solid, liquids and			'dirt'.	keys, tables and charts	of a simple food chain,	have been presented with, I can	
	gases?				Use line graphs to	and identify and	conclude	
				A compass will	record data	name different sources of	Taking everything into account	
				point	Use a range of	food.	Having	
				wherever you	scientific equipment to	Explain that some	analysed Having	
				tell it too.	take measurements	changes result in the formation of new	pondered  If we accept this	
				Majora da arra d	Take measurements	materials, and that	hypothesis, what else will be true? Given this, it is	
				Magnets and	with increasing accuracy and	this kind of change is not	likely that	
				compasses	precision	usually reversible,		
				are the same.	Take repeat readings when appropriate	including changes associated with		
				Ophonotes		burning and the		
				Only water	record data and results of increasing	action of acid on		
				can change	complexity using scientific diagrams	bicarbonate of soda.		
				between solid,	and			
				liquid and gas.	labels, classification keys, tables, bar	Use the idea that light travels in straight lines		
					charts	to explain why		

				All changes caused by heat can be reversed.	and line graphs.  Report and present findings from enquiries, including conclusions and, with prompting, suggest causal relationships With support, present findings from enquiries orally and in writing Suggest further comparative or fair tests.  Report and present findings from enquiries, including conclusions and causal relationships Report and presents findings from	shadows have the same shape as the objects that cast them.		
Sir lagge	Did the apple fall	Car resistance experiment	Eoroos	Squing, on thinking,	enquiries in oral and written forms such as displays and other presentation Report and present findings from enquiries, including explanations of, and degree of, trust in results Identify scientific evidence that has been used to support or refute ideas or arguments Use test results to make predictions to set up further comparative and fair tests  Plan different types of	Explain that	I predict that	Various materials
Sir Isaac Newton	Did the apple fall far from the tree?	using different materials for the ramp	Forces	Saying or thinking something like, "The push wore off." They	Plan different types of scientific enquiries to answer questions.	Explain that unsupported objects fall towards the Earth because of the force	I predict that I believe / I think	Various materials Toy car
Gravity	What is the impact of gravity?	Used different forces to move a car on the playground		know the object has stopped but cannot attribute the stopping	With prompting, recognise and control variables where	of gravity acting between the Earth and	might / or	
Galileo Galilei	What is	Running with different sized poster boards		action to a force from the opposite direction.	necessary.	the falling object Identify the effects of air resistance, water	therefore I think	
Parachute	resistance?	Archimedes -Mathematician who developed theories about how levers and pulleys		Students do not understand yet how	Recognise and control variables where necessary.	resistance and friction, hat act between moving surfaces	that  Can we prove that	

Mator	How does	can lift and move heavy	the lances of histian.		Recognise that some	In	
Water		objects	the forces of friction	Select, with	mechanisms,	conclusion	
resistance	resistance act		and gravity affect the	prompting,	including	I would like to prove /	
	between moving	Galileo Galilei	motion of objects.	and use appropriate	levers, pulleys and	disprove Perhaps	
	surfaces?	- Astronomer,		equipment to take	gears, allow a smaller	the reason is	
Streamlined		Mathematician & Physicist who was the first person to		readings	force to have a		
onearimiea	Does the biggest	use the scientific method		Take precise	greater effect.	In light of	
		to test theories about		measurements using	9.00.0.0.0	predict	
Buoyant	force always	gravity and the Solar		standard units			
booyam	have the biggest	System		Begin to understand		There is a high / low	
	effect?			the need for repeat		probability	
Upthrust		Isaac Newton		readings.			
001111031	What did	- Mathematician &		3.1		The chances of/The	
		Physicist who developed theories about gravity		Take and process		likelihood of/Due to the	
Friction	Newton and	ineones about gravity		repeat readings		fact that/Upon	
THEHOH	Galileo find out	George Cayley		Record data and		consideration of the	
	and why is it	-Aeronautical Engineer		results		relevant factors	
Noviton	important?	who designed the first		Record data using			
Newton	IIIPOITAITIY	successful glider to carry a		labelled diagrams,		Based on the evidence I	
		human being		keys, tables and		have been presented	
1		Brahmagunta		charts		with, I can	
Lever		Brahmagupta - Mathematician &		Use line graphs to		conclude	
		Astronomer who was the		record data		Taking everything into	
		first scientist to talk about				account	
pulley		gravity		Use a range of		Having	
				scientific equipment		analysed	
				to		Having	
				take measurements		pondered	
						If we accept this	
				Take measurements		hypothesis, what else will be true? Given this, it is	
				with increasing		likely that	
				accuracy and		incory in an	
				precision			
				Take repeat readings			
				when appropriate			
				record data and			
				results of increasing			
				complexity using			
				scientific diagrams			
				and			
				labels, classification			
				keys, tables, bar			
				charts			
				and line graphs.			
				Report and present			
				findings from			
				enquiries,			
				including conclusions			
				and, with prompting,			
				suggest causal			
				relationships			
				With support, present			
				findings from			
				enquiries			
				orally and in writing			
				Suggest further			
				comparative or fair			
				tests.			
				Damant Color			
				Report and present	1		

	Γ	1		Т		T	T	1
					findings from			
					enquiries,			
					including conclusions and causal			
					relationships			
					Report and presents			
					findings from			
					enquiries			
					in oral and written			
					forms such as displays			
					and other			
					presentation			
					Report and present			
					findings from			
					enquiries, including			
					explanations			
					of, and degree of,			
					trust			
					in results Identify			
					scientific evidence			
					that			
					has been used to			
					support or refute			
					ideas			
					or arguments Use test results to			
					make			
					predictions to set up			
					further comparative			
					and fair tests			
Circulatory	How important is	Create a human	Animals	Some children	Plan different types of	Identify and	I predict that	N/A
·	my heart?	circulatory system diagram			scientific enquiries to	1		
system	•	alagiam	including	may think:	answer questions.	name the	I believe / I think	
	How does the	Virginia Apgar	humans		With prompting,	main parts of	might / or	
BPM	heart keep us	-Doctor & Medical		Your heart is	recognise and	the	If Then	
DI 141	alive?	Researcher who developed a method of			control			
	UIIVE?	evaluating the well-being		on the left side	variables where	human	X has happened,	
Diet	AA/In ad to be 1	of new-born babies		of your chest	necessary.	circulatory	therefore I think	
	What role does	Dahad Winda		31,231,311,331			It is true	
	the circulatory	Robert Winston -Professor of Science and			Recognise and	system, and	that	
Pulse	system play in	Society, Emeritus Professor		The heart	control	describe		
	keeping us	of Fertility Studies & TV		makes blood	variables where	the functions	Can we prove	
0	alive?	presenter			necessary.		that	
Oxygenated		William Harvey		The blood	Select, with	of the	conclusion	
	How do we look	-Doctor who discovered		travels in one	prompting,	heart, blood	I would like to prove /	
Deoxygonata	after our	the nature of blood			and use appropriate	_	disprove Perhaps	
Deoxygenate	bodies?	circulation and the		loop from the	equipment to take	vessels	the reason is	
d	DOGIOSY	function of the heart as a pump		heart to the	readings	and blood.		
	What is barretul	Pomp		lungs and	Take precise	Recognise	In light ofl predict	
A +ri, 100	What is harmful	Santorio Santorio		_	measurements using	_	prodict	
Atrium	to our bodies?	-Doctor who invented an instrument to measure		around the	standard units Begin to understand	the impact	There is a high / low	
		pulse accurately using a		body	the need for repeat	of diet,	probability	
Ventricle	What does	pendulum and did the first		,	readings.	_	, , , , , , , , , , , , , , , , , , , ,	
V GI IIIICIG	research tell us	scientific study of the			2 2. 2	exercise,	The chances of/The	
	about how	metabolism		When we	Take and process	drugs	likelihood of/Due to the	
Vessel	to maintain a	Richard Doll		exercise, our	repeat readings	and lifestyle	fact that/Upon consideration of the	
, 33331	healthy lifestyle?	-Doctor who proved the			Record data and	·	relevant factors	
	,	link between lung cancer		heart beats	results	on the		
		and smoking			Record data using			

Valva		factor to work	labelled diagrams,	way thair	Based on the evidence I	
Valve	<b>Ruth Ella Moore</b> - Bacteriologist who	faster to work	keys, tables and	way their	have been presented	
D.11 .	researched immunology,	the muscles	charts Use line graphs to	bodies	with, I can conclude	
Diffusion	blood groups and tuberculosis	more	record data	function.	Taking everything into	
			Use a range of	Describe the	account	
Osmosis	James Miranda Steuart Barry	Some blood in	scientific equipment	ways in	Having analysed	
	- Doctor - born Margaret Bulkley, who went to	our bodies is	to take measurements	which	Having pondered	
	medical school by	blue and	lake measurements	nutrients and	If we accept this	
	presenting as male and lived the rest of his life as a	some blood is	Take measurements	water are	hypothesis, what else will be true? Given this, it is	
	man – who became Inspector General of	red	with increasing accuracy and	transported	likely that	
	military hospitals and		precision	within animals		
	improved conditions for wounded soldiers, native	We just eat	Take repeat readings when appropriate			
	inhabitants, and performed the first	food for	record data and			
	caesarean section in Africa	energy	results of increasing			
	Ainca		complexity using scientific diagrams			
			and			
		All fat is bad	labels, classification keys, tables, bar			
		for you	charts			
		10.700	and line graphs.			
			Report and present			
			findings from			
			enquiries, including conclusions			
			and, with prompting,			
			suggest causal relationships			
			With support, present findings from			
			enquiries			
			orally and in writing			
			Suggest further comparative or fair			
			tests.			
			Report and present			
			findings from enquiries,			
			including conclusions			
			and causal relationships			
			Report and presents			
			findings from			
			enquiries in oral and written			
			forms such as displays and other			
			presentation			
			Report and present			
			findings from enquiries,			
			including			
			explanations of, and degree of,			
			trust			

				Γ	I	T	T	T
					in results Identify			
					scientific evidence that			
					has been used to			
					support or refute			
					ideas			
					or arguments Use test results to			
					make			
					predictions to set up			
					further comparative			
Holio a a la Lui a	How big is our	Claudius Ptolemaeus	اء منطام منتعا	Compo alaitalia	and fair tests Plan different types of	Describe a Hara	I predict that	Color ovets
Heliocentric	galaxy?	(Ptolemy)	Earth and	Some children	scientific enquiries to	Describe the		Solar system
	galaxy:	-Astronomer who developed the theory that	space	may think:	answer questions.	movement of	I believe / I	
Geocentric	What is a star?	the Earth was at the			With prompting	the	think might / or	
	TITIOT IS OF STOLET	centre of the Solar System around which the Sun and		The Earth is flat	With prompting, recognise and	Earth, and	If Then	
Solar system	What are the	other planets orbited		The Sun is a	control	other		
30101 3Y310111	planets called				variables where		X has happened, therefore I think	
	and how are	Nicolaus Copernicus -Astronomer who		planet	necessary.	planets,		
Astronomy	they ordered?	developed the theory that			Recognise and	relative to the	It is true that	
	(Copernicus and	the Sun was at the centre of the Solar System around		The Sun	control	Sun in the		
Terrestrial	Alhazen)	which the planets orbited		rotates around	variables where necessary.	solar system	Can we prove that	
planet		Galileo Galilei		the Earth	Tiocossary.	Describe the	In	
PIGITICI	How do the	-Astronomer,			Select, with	1	conclusion	
	planets travel	Mathematician & Physicist who made the first		The Sun moves	prompting, and use appropriate	movement of	disprove Perhaps	
Gas giants	around the sun?	telescope and discovered		across the sky	equipment to take	the	the reason is	
	How does	Neptune and the rings of Saturn		during the day	readings	Moon relative	In Body of	
Axis	the Earth travel			The Sun rises in	Take precise measurements using	to the	In light ofl predict	
	around the sun	Johannes Kepler - Mathematician,		the morning	standard units	Earth -	,	
Orbit	and what is its	Astronomer and		and sets in the	Begin to understand	describe the	There is a high / low	
OIDII	impact?	Astrologer who developed the theory that		_	the need for repeat readings.		probability	
	•	the planets moved on		evening	reduings.	Sun, Earth	The chances of/The	
Moon	Does the moon	oval paths around the Sun			Take and process	and Moon	likelihood of/Due to the	
	move or do we?	Stephen Hawking		The Moon	repeat readings	as	fact that/Upon consideration of the	
Phase		- Physicist & Cosmologist who developed the		appears only	Record data and results	approximatel	relevant factors	
1.5.55		theory that the Big Bang		at night	Record data using	\/		
Maxina		may have been caused by a black hole in reverse		GITH9111	labelled diagrams,	cohorical	Based on the evidence I have been presented	
Waxing		,		<b>N.</b> 1 1 .	keys, tables and charts	spherical	with, I can	
		Neil Armstrong -Astronaut who was the		Night is	Use line graphs to	bodies	conclude	
Waning		first human to walk on the		caused by the	record data	Use the idea	Taking everything into	
_		Moon		Moon getting	Use a range of	of the	account Having	
		Margaret Hamilton		in the way of	scientific equipment	Earth's	analysed	
		-Computer Scientist who		<u> </u>	to		Having	
		was responsible for the software that allowed		the Sun or the	take measurements	rotation to	pondered  If we accept this	
		astronauts Neil Armstrong		Sun moving	Take measurements	explain day	hypothesis, what else will	
		and Buzz Aldrin to land on the Moon		further away	with increasing	and night	be true? Given this, it is likely that	
				from the Earth.	accuracy and precision	and the		
		Caroline Herschel -Astronomer who was the			Take repeat readings	apparent		
		first woman to discover a			when appropriate	3,553,0111		
		comet			roord data and			
					record data and			

Г		Malauka a Ta	T			1	I	1
		Valentina Tereshkova -Astronaut and first			results of increasing	movement of		
		woman in space			complexity using	the sun		
		woman in space			scientific diagrams			
		Mae Jemison			and	across the		
		-Astronaut and first Black			labels, classification			
		woman in space			keys, tables, bar	sky.		
					charts			
		Dr Claudia Alexander			and line graphs.			
		-Physicist who was the Project Manager on			Report and present			
		NASA's Galileo mission to						
		Jupiter			findings from enquiries,			
					including conclusions			
		Maggie Aderin-Pocock			and, with prompting,			
		- Space Scientist & TV			suggest causal			
		Presenter			relationships			
		Helen Sharman			With support, present			
		-Astronaut who was the			findings from			
		first British citizen to go into			enquiries			
		space			orally and in writing			
					Suggest further			
		Tim Peake			comparative or fair			
		-Astronaut who was the first British person to walk in			tests.			
		space			10010.			
		J. J			Report and present			
					findings from			
					enquiries,			
					including conclusions			
					and causal			
					relationships			
					Report and presents			
					findings from			
					enquiries			
					in oral and written			
					forms such as displays			
					and other			
					presentation			
					Report and present			
					findings from			
					enquiries,			
					including			
					explanations			
					of, and degree of,			
					trust			
					in results Identify			
					scientific evidence			
					that			
					has been used to			
					support or refute			
					ideas .			
					or arguments			
					Use test results to			
					make			
					predictions to set up			
					further comparative			
		A4 aum . A1			and fair tests	<del>  </del>	Linux ali ak kla ai k	1
Inherit	What secrets	Mary Anning - Fossil hunter who	Evolution and	Adaptation	Plan different types of	Recognise	I predict that	N/A
	does the Earth	developed the theory that	inheritance	occurs during	scientific enquiries to	_	Lie aliana (C	
	hold?	dinosaurs had become		_	answer questions.	that living	I believe / I think	
Adaptation		extinct a long time ago		an animal's	With promoting	things have	might / or	
1 -					With prompting,		If Then	
		Charles Darwin		lifetime:	recognise and control	changed		
l l					COMITO			

F	\A/la art ras art s a	- Natural Historian who		variables where	1.		
Epiphytes	What makes us	developed the theory of	giraffes' necks	variables where necessary.	over time and	X has happened,	
	different?	evolution by natural selection	stretch during	,	that	therefore I think	
Fossil	Why does the		their lifetime to	Recognise and control	fossils provide	It is true	
	environment	Alfred Wallace -Natural Historian who	reach higher	variables where	information	that	
Mary Anning	change and	developed the theory of evolution by natural	leaves and	necessary.	about	Can we prove	
	how do we keep	selection	animals living	Select, with	living things	that In	
Palageontolo	up? adaptation	Nettie Stevens	in cold	prompting,	that	conclusionI would like to prove /	
gist	Why is evolution	- Geneticist who	environments	and use appropriate equipment to take	inhabited the	disprove Perhaps	
9131	important for	concluded that sex is inherited as a	grow thick fur	readings	Earth	the reason is	
Charles	survival? Adapta	chromosomal factor and that males determine the	_	Take precise measurements using	millions of	In light of	
	tion	gender of offspring)	during their life	standard units		predict	
Darwin	\\/h at	Emma Dunne	Offspring most	Begin to understand the need for repeat	years ago	There is a high / lave	
	What characteristics	-Palaeobiologist who investigates how ancient	resemble their	readings.		There is a high / low probability	
Evolved	do we need to	climate change affected	parents of the	Take and process	Recognise		
	survive? Adapts	the evolution of different species	same sex, so	Take and process repeat readings	that living	The chances of/The likelihood of/Due to the	
Natural	•	·	that sons look	Record data and	things	fact that/Upon consideration of the	
selection	AMIC CLUB CONTROL	Telma Laurentino -Evolutionary Biologist who	like fathers	results Record data using	produce	relevant factors	
	What did Darwin find and how do	measures differences in the colour of lizards that		labelled diagrams,	offspring of		
Ancestor	we	live in white desert sands	All	keys, tables and charts	the same	Based on the evidence I have been presented	
	know it's true?	to find differences in their genes which might have	characteristics	Use line graphs to	kind, but	with, I can	
Homosapiens		allowed them to survive in such an extreme	, including	record data	normally	conclude	
Tierriesapieris		environment	those that are	Use a range of	offspring vary	Taking everything into account	
			due to actions	scientific equipment to	and are	Having	
				take measurements	not identical	analysed Having	
			during the	Take measurements		ponderedlf we accept this	
			parent's life	with increasing	to their	hypothesis, what else will	
			such as dyed	accuracy and	parents	be true? Given this, it is likely that	
			hair or	precision Take repeat readings	Identify how		
			footballing	when appropriate	animals		
			skills, can be	record data and	and plants		
			inherited	results of increasing	are		
				complexity using scientific diagrams	adapted to		
			Cavemen and	and	suit their		
			dinosaurs were	labels, classification keys, tables, bar	environment		
			alive at the	charts	in		
			same time.	and line graphs.	different ways		
				Report and present	and that		
				findings from enquiries,	adaptation		
				including conclusions	may lead		
				and, with prompting,	to evolution.		
				suggest causal relationships			
				With support, present			
				findings from enquiries			

					orally and in writing			<u> </u>
					Suggest further			
					comparative or fair			
					tests.			
					100101			
					Report and present			
					findings from			
					enquiries,			
					including conclusions			
					and causal			
					relationships			
					Report and presents findings from			
					enquiries			
					in oral and written			
					forms such as displays			
					and other			
					presentation			
					Report and present			
					findings from			
					enquiries,			
					including explanations			
					of, and degree of,			
					trust			
					in results Identify			
					scientific evidence			
					that			
					has been used to			
					support or refute ideas			
					or arguments			
					Use test results to			
					make			
					predictions to set up			
					further comparative			
					and fair tests			
Light	Can you stop	Light in a straight line	Light	Some children	Plan different types of	Recognise	I predict that	Cardboard
	light?	experiment	9	may think:	scientific enquiries to	that light		Torches
		Shadow box experiment		•	answer questions.	· .	I believe / I think	TOTCHES
Light source	How does light	to explore shadow shape		'We see	With prompting,	appears to	might / or	
	travel and how	and what affects them		objects	recognise and	travel in	If Then	
Pofloatod	do we know?	Euclid		•	control			
Reflected	ao wo know.	- Mathematician who		because light	variables where	straight lines	X has happened,	
	How does light	predicted that light travels		travels from	necessary.	use the idea	therefore I think	
Variable	travel to the	in straight lines and we only see things that light		our eyes to the	Popogrise and	that light	It is true	
. 3.1.3.3.3	eyes?	falls on		=	Recognise and control		that	
	G Y C 3 Y	lless and I less alle come (Alle come)		object.	variables where	travels in	Can we prove	
Angle	\A/lb out income or of	Ibn al-Haytham (Alhazen) -Physicist &			necessary.	straight lines	that	
	What impact	Mathematician who				to explain	In	
A dimmo m	does light have	developed a theory that			Select, with		conclusion I would like to prove /	
Mirror	on objects?	light travels in a straight line, and proved it by			prompting,	that objects	disprove Perhaps	
		carrying out the first			and use appropriate equipment to take	are seen	the reason is	
Opaque	Do shadows	scientific experiment			readings	because they		
	have the same	lha Cahl			Take precise		In light of	
	shapes as the	Ibn Sahl - Mathematician who			measurements using	give out or	predict	
Transparent	object that cast	observed the paths of rays			standard units	reflect light		
·	them?	of light as they reflected			Begin to understand	into the eye	There is a high / low	
		off different mirrors)			the need for repeat		probability	
					readings.			

0 1 1	AA/less et e acces to a	Colin Webb	I		I =	Г	
Sunshade	Why do we have	-Professor of Laser Physics		Take and process	Explain that	The chances of/The	
	rainbows?			repeat readings	we see	likelihood of/Due to the	
Rotate				Record data and	things	fact that/Upon	
KOIGIO				results	_	consideration of the relevant factors	
				Record data using labelled diagrams,	because light		
Optical				keys, tables and	travels from	Based on the evidence I	
				charts	light	have been presented	
Spectrum				Use line graphs to	sources to our	with, I can conclude	
Ороспоп				record data			
				Use a range of	eyes or	Taking everything into	
				scientific equipment	from light	account Having	
				to	sources to	analysed	
				take measurements	objects and	Having pondered	
				Take measurements	_	If we accept this	
				with increasing	then to our	hypothesis, what else will	
				accuracy and	eyes	be true? Given this, it is likely that	
				precision Take repeat readings	Use the idea	,	
				when appropriate	that light		
					travels in		
				record data and results of increasing			
				complexity using	straight lines		
				scientific diagrams	to explain		
				and	why shadows		
				labels, classification keys, tables, bar	have the		
				charts			
				and line graphs.	same shape		
					as the		
				Report and present findings from	objects that		
				enquiries,	cast them.		
				including conclusions	C G 51 11 10 11 1.		
				and, with prompting,			
				suggest causal relationships			
				With support, present			
				findings from			
				enquiries			
				orally and in writing Suggest further			
				comparative or fair			
				tests.			
				Donart and arecast			
				Report and present findings from			
				enquiries,			
				including conclusions			
				and causal			
				relationships Report and presents			
				findings from			
				enquiries			
				in oral and written			
				forms such as displays and other			
				presentation			
				Report and present			

findings	from	
enquirie		
including		
explana		
	degree of,	
trust		
in results	Identify	
	evidence	
that	, a riddings	
	n used to	
	or refute	
ideas		
or argun	nents	
	results to	
make		
	ons to set up	
further	comparative	
	I fair tests	
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