Science Medium term plan **Uses of Materials Y2**

Pupils should be taught to:

- 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.

The principal focus of science teaching in key stage 1 is to enable pupils to experience and observe phenomena, looking more closely at the natural and humanly constructed world around them. They should be encouraged to be curious and ask questions about what they notice. They should be helped to develop their understanding of scientific ideas by using different types of scientific enquiry to answer their own questions, including observing changes over a period of time, noticing patterns, grouping and classifying things, carrying out simple comparative tests, and finding things out using secondary sources of information. They should begin to use simple scientific language to talk about what they have found out and communicate their ideas to a range of audiences in a variety of ways. Most of the learning about science should be done through the use of first-hand practical experiences, but there should also be some use of appropriate secondary sources, such as books, photographs and videos.











(???) (a) (a) (b) (b) (Working scientifically' is related to the teaching of substantive science content, examples show how scientific methods and skills might be linked to specific elements

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

Prior Learning:

- Distinguish between an object and the material from which it is made. (Y1)
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock (Y1)
- Describe the simple physical properties of a variety of everyday materials. (Y1)
- Compare and group together a variety of everyday materials based on their simple physical properties. (Y1)

Future Learning:

- Compare and classify different rocks based on their appearance and simple characteristics (Y3)
- Notice that some forces need contact between two objects, but magnetic forces can act at a distance. (Y3)
- Compare and classify together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity, and response to magnets (Y5)
- Give reasons, based on evidence from comparative and fair tests, for the uses of everyday materials, including metals, wood and plastic. (Y5)

Key questions (Show how content and concepts link) Differentiated Learning Objectives	Teaching and learning activities (Linked directly to objectives)	Resources (To help pupils reach the learning objectives)	Written and non- written Outcomes (Assessment including homework's)
1)How are different materials used?	Science reasoning task: explorify :zoom in zoom out Creature comforts - Explorify	Activity 1: Range of objects made	Reasoning – explaining the suitability of different materials and
Science capital: How does this lesson connect with children in my class? What different objects do you have at home? Which material	Activity 1: Show children different objects and ask what materials are these objects made	out of different materials. Venn Diagram hoops.	linking to their properties.
do you think it is made from? Science Working scientifically Skills:	from? What does this material look like? What does it feel like? How does it behave? Once identified the different materials	Activity 2: worksheet to identify different	Classifying objects under chosen criteria.

Asking questions / observing as them what can they be used objects and Homework-list of for? Use the word most suitable materials they objects and what for? Look around the classroom are made out materials are they made are there any objects made from out of. any of these materials? Activity 3: Activity 2: To complete sheet of matching the identifying different materials suitability and and the different objects created giving reasons. from them. I.e., wood- table, Pupils use their Y1 knowledge chairs, bench etc To label different to distinguish between an Activity 4materials in the outdoor object and the material it is reasoning card. environment. Classify different made from. Also, they can objects into different materials. identify the various materials. Pupils will understand objects **Activity 3- suitability** Identify material and it's many are made of one or more uses. i.e metal- chair, spoon, car materials that are chosen specifically because they have suitable properties for the task. **Activity 4:** Reasoning-chair Misconception: only fabrics made out of chocolate or ice are materials, only building which would be better? Convince materials are materials, the word rock describes an object rather than a material, solid is another word for hard. Activity 1: Reasoning – explaining 2) Should desks be made out Science reasoning task: explorify Children to be the suitability of of sponges? The space in between - Explorify in mixed ability different materials and Activity 1: Link to story character and to be given linking to their Science capital: wants you to help him find out the a map to properties. what is in your house? What is different uses of different follow- and a it made out of? What would materials and classify them. log to write happen if remote control was Explain we are going to go on a down what Classifying objects made out of sponge? Etc. short walk using our school map to material they under chosen criteria. help us to spot different materials identified and Science Working scientifically and their uses. the object made Ch will go out on a walk and write from it. Homework- Designing down what material they have an object but thinking Asking questions / observing spotted and then they are to Activity 2: Venn about the materials Diagram hoops. being used and their identify the use for it. Science suitability. Activity 2: classify all the objects vpe: Classify we spotted that were made out of wood and metal? Elicit one material can have many uses Pupils will understand the suitability of materials for a specific purpose and recall on their prior knowledge in Y1. Misconception: only fabrics are materials, only building materials are materials, the word rock describes an object rather than a material, solid is another word for hard. Activity 1: 3) Which paper is most Science reasoning task: explorify Reasoning – explaining Fascinating forks - Explorify Group post it the properties of absorbent? note different materials

Science capital:

What is in your house that is	Activity 1 What does absorbent	experiment	using Y1 properties.
absorbent? Why does it need to	mean?	write up.	(Prior knowledge)
be? How is it useful?	: Link to character would like you to find out which paper should he		
Science Working scientifically	wrap his sandwiches in so they do		Comparing different
Skills:	not get soggy/wet easily?		materials and their
JKIII3.			properties.
	Ask ch how many different types of		
	paper are there? (Kitchen paper,		
Science Enquiry Type:	different brands of paper towels, school paper towels, squares of		
Comparative	paper,		
$\Delta \lambda$	Show children and say what are we		
	trying to find out for x? What is our		
	enquiry question? Explain they are scientists for x and need to have an		
Pupils will understand the	answer by the end of the lesson.		
properties of different			
materials in terms of	How can we test out absorbency of		
absorbency. They will carry out	a material? Take ideas and then		
a simple tests. Misconception: only fabrics	explain we are going to use Pipette puddle. will use a pipette to drop		
are materials, only building	water on a table to make a small		
materials are materials, the	puddle. I will place the paper on		
word rock describes an object	top of it for a set period of time		
rather than a material, solid is	and see how much water is left on the table.		
another word for hard.	the table.		
4)How can we make absorbent	Science reasoning task: explorify	Activity 1- Post	
materials waterproof?	Fit for purpose? - Explorify	it note ideas.	
Science canital What do you have	Activity 1 -Recan what does	Activity 2- Floor	Writing a short note,
Science capital What do you have that is waterproof? Why is it	Activity 1 -Recap what does absorbent mean? Link to character	Activity 2- Floor book evidence	message to character
Science capital What do you have that is waterproof? Why is it waterproof?		•	
that is waterproof? Why is it waterproof?	absorbent mean? Link to character	book evidence Activity 3- Post	message to character about what they found out. DT/Science – creating
that is waterproof? Why is it waterproof? Science Working scientifically	absorbent mean? Link to character wanting to make hat waterproof and climate of London.	book evidence Activity 3- Post it notes / talk	message to character about what they found out. DT/Science – creating hats for character to
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that is waterproof? Why is it waterproof? Science Working scientifically Skills: ???	absorbent mean? Link to character wanting to make hat waterproof and climate of London. Ask how could we investigate this? Activity 2- Plan as a whole class the enquiry – how could we investigate this problem to find a solution to it? Model and share each step of the planning investigation process. D Activity 3: Discuss the concept cartoon, and discuss who do they agree with the most and why? (Prediction) Activity 4: Carry out the experiment and record the results in table. Science reasoning task: explorify Had a favourite toy that broke? - Explorify	book evidence Activity 3- Post it notes / talk partner. Activity 4: Photograph evidence and recording sheet. Activity 1- Whiteboards to write down any key facts learnt.	message to character about what they found out. DT/Science – creating hats for character to wear. Homework- Testing out findings on different materials/ fabrics at home to see if applying wax can make them waterproof. Using research to write key facts in a fact file about Charles
that is waterproof? Why is it waterproof? Science Working scientifically Skills: ???	absorbent mean? Link to character wanting to make hat waterproof and climate of London. Ask how could we investigate this? Activity 2- Plan as a whole class the enquiry – how could we investigate this problem to find a solution to it? Model and share each step of the planning investigation process. D Activity 3: Discuss the concept cartoon, and discuss who do they agree with the most and why? (Prediction) Activity 4: Carry out the experiment and record the results in table. Science reasoning task: explorify Had a favourite toy that	Activity 1- Whiteboards to write down any	message to character about what they found out. DT/Science – creating hats for character to wear. Homework- Testing out findings on different materials/ fabrics at home to see if applying wax can make them waterproof. Using research to write key facts in a fact file about Charles

Science Working scientifically Skills Activity 1 – Discuss concept carton about different objects and do you agree or disagree. Why do you agree or disagree? Activity 2 - use observation skills to test out the different materials to see if they twist, bend, stretch etc. Activity 3 - Record observations in a results table. Activity 4 - Classify different objects into opaque, translucent and transparent. Activity 4 - Classify different objects into opaque, translucent and transparent. Activity 4 - Classify different objects into opaque, translucent and transparent. Activity 4 - Classify. Activity 4 - Classify. Activity 4 - Classify. Activity 5 - Record on a given table. Activity 4 - Classify. Activity 1 - Classify the different rubbish where it shouldn't be? - Explorify Activity 2 - watch video/ PowerPoint of how rubbish goes from the bin to the recycling centre and gets reused. Activity 3 - sequence steps of the recycling process of more and gets reused. Activity 3 - sequence steps of the recycling process and some to explain each step. Pupils will understand the importance of recycling, reuse and reduce of wate. Pupils will understand the process of recycling and what happens to objects once placed in the bin. Activity 1 - Classify the different rubbish income to be a classify and disadvantages. Activity 3 - sequence steps of the recycling process - writing frame. Activity 3 - sequence steps of the recycling and what happens to objects once placed in the bin. Activity 4 - So on a walk around. Activity 1 - Dos and walk around. Activity 1 - Dos and walk around. Activity 2 - watch video/ PowerPoint of how rubbish goes from the bin to the recycling process or writing frame.	Science Working scientifically Skills: ???	Activity 2- Discuss some of the facts that they found out in the video, make note of some of the facts retrieved. Activity 3- Model using the different texts /sources to learn and answer questions about Charles Macintosh. Activity 4- Model writing a fact file about Charles Macintosh using some of the facts learnt through listening to a video and internet / book information.	Activity 3- Post it notes / talk partner. Activity 4: Record on fact file template.	Homework- Research other scientists such as Dunlop.
Science capital What bins do you have at home? What might you recycle? Science Working scientifically Skills: Activity 1 – classify the different rubbish into appropriate bins. Activity 2- watch video/ PowerPoint of how rubbish goes from the bin to the recycling centre and gets reused. Activity 3- sequence steps of the recycling process – writing frame. Pupils will understand the importance of recycling, reuse and reduce of wate. Pupils will understand the process of recycling and what happens to objects once placed in the bin.	6) How can materials change shape? Science Working scientifically Skills: ???	cartoon about different objects and do you agree or disagree. Why do you agree or disagree? Activity 2- use observation skills to test out the different materials to see if they twist, bend, stretch etc. Activity 3- Record observations in a results table. Activity 4- Classify different objects into opaque, translucent and	it notes to write down thoughts. Activity 2- Floor book evidence Activity 3: Record on a given table. Activity 4: Venn diagram and objects/pictures to	why we might need materials to change
	Science capital What bins do you have at home? What might you recycle? Science Working scientifically Skills: ???	Seen rubbish where it shouldn't be? - Explorify Activity 1 – classify the different rubbish into appropriate bins. Activity 2- watch video/ PowerPoint of how rubbish goes from the bin to the recycling centre and gets reused. Activity 3- sequence steps of the recycling process and some to	Venn Diagram/ pictures to classify Activity 2- video/ PowerPoint Activity 3- sequence steps of the recycling process –	recycling? Advantages and disadvantages. Homework- Making a list of all the things that

purposes of materials and the pencil, camera Science Working scientifically things they are made out of inside to take pictures. Skills: school and outside on school grounds. Discuss the suitability of Activity 2 $oxed{???}(lackoldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{A}}}}oxed{oldsymbol{oldsymbol{oldsymbol{A}}}}oxed{oldsymbol{oldsymbol{oldsymbol{A}}}}oxed{oldsymbol{oldsymbol{oldsymbol{A}}}}oxed{oldsymbol{oldsymbol{A}}}oxed{oldsymbol{oldsymbol{A}}}$ each material for the purpose of template and the object. vocabulary Science Enquiry Type: Working Comparative **Activity 2-** set up the experiment scientifically as a class- Enquiry question- what symbols and are we trying to find out? Why? vocabulary. Equipment – choose from a **Activity 3**model and selection -**Activity 3-** Prediction – write what sentence stem Pupils will understand a they think and why. May draw on to be provided. scientist who created own experiences. something out of his curiosity. Activity 4-They will be able to use **Activity 4-** Carry out experiment as record resultsgroup and record results- in table secondary resources to find out in table key facts and create a fact file. template provided. template provided. Activity 5- Conclude as a class and write a join conclusion. Activity 5sentence stem and vocabulary. Reasoning - prior 9) Would you choose a ball of Science reasoning task: explorify Activity 1plasticine to play tennis or Squashed a sandwich in your Concept knowledge of different rubber? cartoon materials and explaining bag? - Explorify Science capital What materials suitability. are balls made out f that you play Activity 2-Floor Activity 1 - Discuss concept book or working cartoon about different materials wall to record. the balls are made out of. Who do Science Working scientifically Templates and you agree with and why? Skills: sentence stems, vocabulary to **Activity 2- Guided** be provided. $(???)(\clubsuit)(\checkmark)(\mathbf{Q})(\mathbf{G})(\textcircled{\bullet})$ set up the experiment as a class-Enquiry question- what are we Science Enquiry Type Activity 3trying to find out? Why? Comparative range of ball Equipment - choose from a with various selection -Prediction as a whole materials class using the concept cartoon, Method – three steps to follow. Activity 3- Carry out the Pupils will understand and experiment following the method apply their knowledge of the and to record result in a table already provided. properties of materials and how they use the object to see if it is suitable. 10) Which fabric can stretch the Activity 1 -Science reasoning task: explorify Reasoning – what it the concept cartoon purpose of stretchy most? Every material was stretchy? Science capital What things do sentence material? - Explorify you have that are stretchy? Why stems Activity 1 - Discuss concept do they need to be stretchy? cartoon about different materials Activity 2and who they agree with the most. Science Working scientifically template, Why? Skills: vocabulary and sentence stem frames. Activity 2- Enquiry question- what are they trying to find out-Science Enquiry Type: Equipment – choose from a Comparative selection -Prediction as a whole

	class using the concept cartoon,		
$\Delta \Delta$	Method – three steps to follow. Conclusion -what did you find out.		
Pupils will understand and set			
up simple test to investigate			
the how stretchy a fabric is.			
Pupils will understand the			
purpose of the materials being			
stretchy and it's uses.			
11)Which fabric is durable and flexible?	Science reasoning task: explorify	Activity 1 – concept cartoon	Reasoning – understanding
Science capital Why do materials	Material world - Explorify	– sentence	properties can be heard
need to be durable and flexible?	Astivitus 1 Dissues concent	stems	too.
What do you have at home which	Activity 1 – Discuss concept cartoon about different materials		
is made out of a tough and	and who they agree with the most.	Activity 2-	
flexible material?	Why?	template,	
Science Working scientifically		vocabulary and sentence stem	
Skills:		frames.	
	Activity 2- Enquiry question- what		
??? (4) (4) (6)	are they trying to find out- Equipment – choose from a		
000000	selection -Prediction as a whole		
Science Enquiry Type:	class using the concept cartoon,		
Comparative	Method – three steps to follow.		
	Conclusion -what did you find out.		
₹			
Pupils will understand why			
objects need to be			
durable/tough and flexible.			
They will set up a simple test to			
investigate the durability of			
various materials.	Colonia de la comparión	0-11-11-4	December outer
12) Compare which bucket is best for a bucket to carry water?	Science reasoning task: explorify Bottle it up - Explorify	Activity 1 – concept cartoon	Reasoning – prior knowledge –
(GFOL)	Bottle it up - Explority	- sentence	understanding and
Science capital What materials	Activity 1 – Discuss concept	stems	explaining how material
are used for what around you?	cartoon about different materials		such as glass can be
Science Working scientifically	and who they agree with the most.	Activity 2- template,	useful.
Skills:	Why?	vocabulary and	
		sentence stem	
??? (4) (4) (6)	Activity 2- Enquiry question- what	frames.	
	are they trying to find out-		
Science Enquiry Type: Comparative	Equipment – choose from a		
	selection -Prediction as a whole		
	class using the concept cartoon, Method – three steps to follow.		
$\Delta \Delta$	Conclusion -what did you find out.		
Pupils will set up simple tests			
and use their knowledge of			
materials and their properties			
to make predictions. 13) Which is the best material to	Activity 1 – Discuss concept	Activity 1 –	Reasoning – prior
stop a leak in the bucket? (GFOL)	cartoon about different materials	concept cartoon	knowledge make
,	and who they agree with the most.	- sentence	predictions.
	Why?	stems	
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Science Working scientifically Skills: ???	Activity 2- Enquiry question- what are they trying to find out-Equipment – choose from a selection -Prediction as a whole class using the concept cartoon, Method – three steps to follow. Conclusion -what did you find out	Activity 2- template, vocabulary and sentence stem frames.	
results tell them. 14) Identify and compare suitability of different materials Science Working scientifically Skills: ???	Activity 1- look at everyday objects from immediate environment and discuss what they notice. Are children able to use scientific vocabulary to explain properties of different materials? Activity 2- Independent task of children to complete their assessment of describing the suitability of different materials.	Activity 1- everyday materials, picture cards Activity 2- Independent sheet for assessment.	Assessment– identify everyday materials and describe their properties using scientific vocabulary.