MORDA CE PRIMARY SCHOOL

Knowledge Organiser

Everyday materials: Bluebells Spring 2023

Reception

Understanding the World
- Explore the natural world around them.
- Describe what they see, hear and feel whilst outside

Communication and Language
- Learn new vocabulary.
- Use new vocabulary through the day
- Use new vocabulary in different contexts

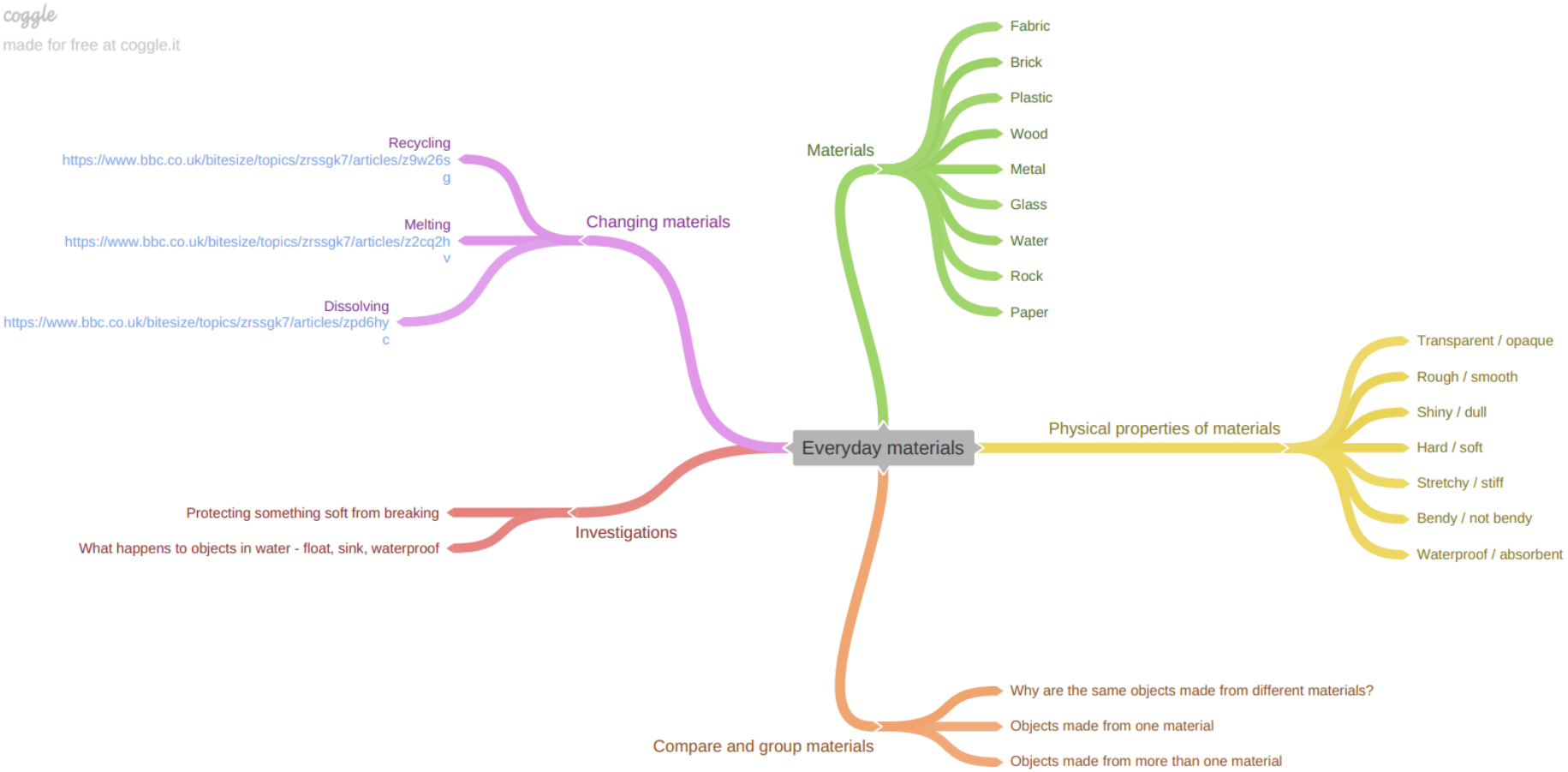
Expressive Art and Design
- Create collaboratively, sharing ideas, resources and skills

Key Skills	Key enquiry questions
Everyday materials **Year 1** Distinguish between an object and the material from which it is made. Identify and name some everyday materials. Use senses to explore a wide range of materials.	Key Questions S1 How could you describe this material? S2 How would you sort these materials? S3- Where do you find rocks? S4- What could this material be used for? S5- What material would keep something warm? S6 – Why is this material good for…?
Changing materials **Year 1** Name some familiar solids and liquids. Talk about some shapes that can be changed, e.g. by pinching, squashing, bending, twisting and stretching.	S1-What happens when I squash, roll stretch this material? S2- How can I separate a simple solids mixture? S3- What happens when I warm this material in warm water? S4- What are reversible changes and irreversible changes? S5-How does temperature change water and other materials (states of matter)? S6-How has this material, mixture, solution been changed?

Working Scientifically - Planning Year 1 Ask questions based on exploration of the world around them. Respond to prompts by making some suggestions about how to find an answer.	
Working Scientifically - Observation & Recording Year 1 Respond to prompts by making some suggestions about how to make an observation. Use senses and simple equipment to make observations. Talk about what happens and record using words and pictures. Begin to record data in simple templates.	
Working Scientifically - Conclusions Year 1 Begin to use simple features to compare objects, materials and living things. Identify what has changed when observing objects, living things or events. Talk in simple terms about what might happen based own experiences.	
	**Link to Mantle of the Expert - scenario The Great Fire of London** **Link to Science**: Looking at materials to rebuild the city of London.

Bluebells Everyday Materials

Spring 2023



Session	Skills	Key questions	Learning activities	Writing opportunity and evidence in books	Resources
1	Pre-learning assessment	What do I already know about materials? What do I want to find out about materials? Complete Coggle with children.	To create a mind map of what they already know about materials.	Mind maps of what they already know and what they want to find out.	Mind map templates.
2	Identify and name some everyday materials. Distinguish between an object and the material from which it is made.	Do you recognise any of the materials?	Place lots of different materials around so children can come and explore and see if they can find out what they are made of. Look at how some objects are made from different things and that	Labels	Large paper Pens Materials Objects made from more than one material

			sometimes an object is made from more than one object. Look at why this is. Make labels and sort the objects so it is with the correct label.		
3	Identify and name some everyday materials. Distinguish between an object and the material from which it is made.	How can I protect something soft? Which type of materials would I need to use? What would happen if I used something hard to protect it?	Experiment: Egg drop – Children to work in groups and encase their egg to stop it breaking when dropped.	Predictions Conclusion	Eggs Range of materials – both hard and soft Sellotape String Science plan
4	Identify and name some everyday materials. Distinguish between an object and the	How can I stop something from getting wet? What happens to materials in water? Some float / sink / break apart / waterproof	Experiment: Different objects in water	Predictions Conclusion	Range of materials – both hard and soft Science plan

	material from which it is made.				
5	Use senses to explore a wide range of materials. Talk about some shapes that can be changed, e.g. by pinching, squashing, bending, twisting and stretching. Name some familiar solids and liquids.	Can all objects be changed? What happens to objects when they get recycled?	Explore changing materials – include solid to liquid and liquid to solid.	Recording how the materials could be changed	Range of materials Ice
6	Post - learning assessment	What do I now know about materials?	Complete a mind map of what they now know about materials?	Mind maps of what they now know about materials.	Mind map templates.