

## Science Knowledge Organiser

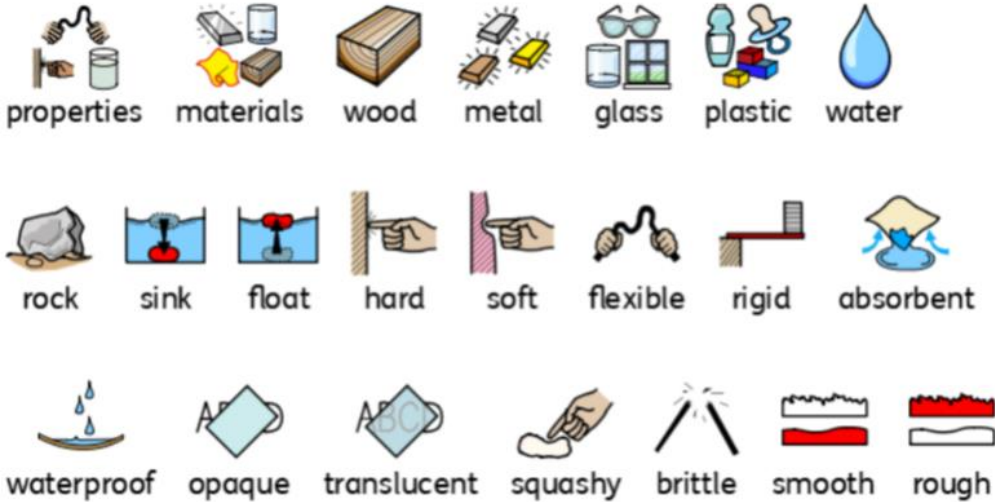
Y1 T1 Materials

The Big Question:

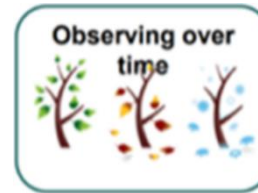
What happens to materials over time if they are left in water?



### Key Vocabulary

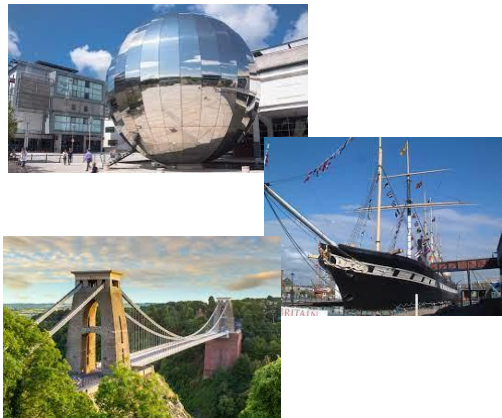


### Working Scientifically Knowledge



Recording their observations in the form of scientific drawings and labelling key features.

### Where could you go?



### Who could you be?



An architect



A research scientist

What will we learn?

Lesson 1 – Know and describe the month, season and weather.

Lesson 2 - Know what a material is.

Lesson 3 - Name different types of materials.

Lesson 4 - Know how to describe properties of different materials.

Lesson 5 and 6 – Gather and record data and use it answer questions.

## Knowledge Organiser

### Key Vocabulary

Properties, materials, wood, metal, glass, plastic, water, rock, sink, float, hard, soft, flexible, rigid, absorbent, waterproof, opaque, translucent, squashy, brittle, smooth, rough

**Domain Knowledge** (references all facts children will need to access learning)

Recognise that some materials are waterproof.

Identify and name everyday materials (wood, plastic, glass, metal, water and rock). Describe simple physical properties.

### Where can this take you in the future?

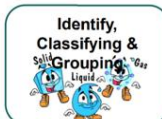
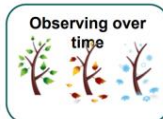
Architect  
Research Scientist  
Design Engineer

## The Big Question: What happens to materials over time if they are left in water?



### Conceptual Science Knowledge – Materials

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



Physics

### Working Scientifically Knowledge – Observing over time.

Decide what data needs to be collected in order to answer the big question.

Gather data accurately. Say what they notice and state any changes they can see happening. State any similarities or differences.

- make comparisons between things
- make suggestions for these similarities/differences.

### Experiments for experts

Experiment to find the best material for a boat for a teddy bear.

### Enhancements

Check out the BBC Bitesize web page.

Read 'The three little pigs'.

### STEM links to try at home

Visit We the Curious, the SS Great Britain or the Clifton Suspension Bridge



properties



materials



wood



metal



glass



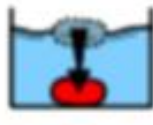
plastic



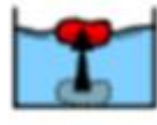
water



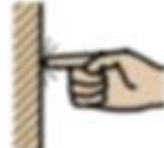
rock



sink



float



hard



soft



flexible



rigid



absorbent



waterproof



opaque



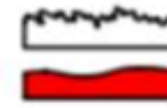
translucent



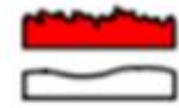
squashy



brittle



smooth



rough