

Knowledge Oragniser

Subject: Science

Topic: Use of Everyday Materials

Year 2

Key Knowledge & Vocabulary

Different materials have different properties e.g. bendy, transparent (see-through).

Objects are made from different materials depending on the properties of those materials. Suitable materials are chosen based on their properties.

Some materials float on water. Materials which float are buoyant.

The shape of some materials can be changed.

Materials have different properties in relation to heat. Some materials are insulators and others are conductors.

Working Scientifically

Fair testing 1



Observing over time

Researching



Classifying, identifying and comparing

Exploring 9

Seeking patterns

Which did you use in science lessons and why?

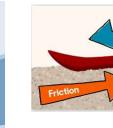
Key Concepts

Materials	Float	Friction	Insulators	Conductors	
Objects are made of materials,	When something is in water, there are	Friction is a force between two surfaces	Insulators are materials which do not	Conductors are the opposite of	
sometimes only one, sometimes more	two forces acting on it. Its weight and	that are sliding, or trying to slide, across	conduct heat very well and so we can	insulators. Heat passes quite easily	
than one. Materials can have different	the force of the water pushing up, the	each other. Friction always works in the	use them to control heat and keep	through them. We can use conductors to	
properties.	upthrust. If the weight is equal to or	direction opposite to the direction in	things hot or cold.	move heat, for example, radiators are	
	less than the upthrust, it floats. Things	which the object is moving, or trying to		made from metal.	
	that float are buoyant .	move. Friction always slows a moving			
	-	object down.			

Linking Thinking Across Our Learning Journey									
Nursery	Reception	Year	Year 2	Year 3	Year 4	Year 5	Year 6		
Cause and effect	Cause and effect	Everyday materials	Everyday materials	Magnets	Electricity	Space	Forces		

Floating

Upthrust



Friction



Flying





Weight

Insulators





Conductors



