

Y2 SCIENCE TOPIC HT1		UNIT: Materials
LESSON	OBJECTIVE	INPUT/ ACTIVITIES
1	Understand that everything is made up of some sort of material.	Take a walk around school and point out that everything is made of a type of material. Some are natural (made by God) and some are manmade (made by humans)
2	Understand that different materials have properties.	In the class list all the different types of materials that they know, introduce ones they didn't mention. Pupils sort objects into material type. Find out what their properties are. That best suit them to that material.
3	Understand that the properties of materials make them suitable for different purposes	Using the school mini bus identify the different components (windows, lights, tyres, body, seats, foot plate) and the materials that they're made out of. Discuss why they are made out of such material. Pupils label the minibus and describe why they are made from such material.
4	Understanding the suitability of material.	Using a drinking cup, as a class pupils list the negative and the positive reasons why it should / shouldn't be made from each material. Individually pupils choose the best material / design for carrying a group of books home to mark.
5	To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Using playdough / bluetac create models of vehicles through squashing, bending, twisting and stretching.
6	To work scientifically to produce a fair test.	What is the best material for mopping up a puddle? As a class pupils create & carry out a fair test to see which material mops up a puddle the best
7	To work scientifically to create and carry out a fair test .	What will make a toy car go further? Using ramps which are covered in various materials pupils design and carryout a test to see which would be the best surface.

Year 1

Year 2

Soft

See-through

Hard	Transparent
Rough	Translucent
Smooth	Opaque
Stretchy	Absorbent
Stiff	Suitable
Shiny	Unsuitable
Dull	Flexible
Flexible	Rigid
Waterproof	

**Materials**

glass

plastic

wood

metal

fabric

stone