



Roby Park Primary School Year 2  
Chemistry  
Materials



### What we already know:

- ✓ 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.

### We are learning 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.





# Roby Park Primary School Year 1 Chemistry Materials



## We already know:

- ✓ 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.

## Key Vocabulary

**Absorbent** - Able to soak up liquid easily.

**Fabric** - cloth produced by weaving fibres.

**Nylon** - A plastic that form fibres and be woven into material or moulded into objects.

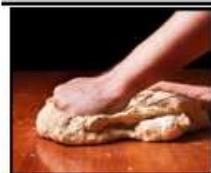
**Opaque** - Not able to be seen through; not transparent.

**Waterproof**- Keeps out water.

**Glass** - A hard, brittle substance, typically transparent or translucent, made by fusing sand with soda and lime and cooling rapidly.

**Metal** - A solid material which is typically hard, shiny, e.g. iron, gold, silver, and aluminium.

### Squashing



### Bending



### Twisting



### Stretching



## The Power of Four



Some objects can be made from various materials. For example, a spoon can be made from: plastic, wood or metal.

### Properties of Materials

Wood	Hard, strong, stiff
Plastic	Strong, shiny, bendy
Glass	Transparent, smooth, stiff
Metal	Hard, strong, shiny
Water	Runny, wet, clear
Rock	Hard, strong

## Investigate!

Examine a selection of materials and list their properties. State why they think objects are made from the materials that they are made from. Explore the properties of cornflour slime. Test the strength and absorbency of materials, try to improve nappy waterproofing.





# Roby Park Primary School Year 1 Chemistry Materials



## 3Ws

Which of the following is not a waterproof material?

- A. Metal
- B. Wax
- C. Paper
- D. Plastic

What is the best material to make a window?

Why do some children drink from plastic cups rather than glass ones?

## 3 2 1

Name 3 properties of materials

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.....

List 2 uses for wood.

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Recall 1 fact about sponge

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List 5 materials



## VOCABULARY UNSCRAMBLE

c p l i t s a

Strong, shiny and bendy

k r b i c

Hard and strong, good for building houses.

c i f a b r

Woven together fibres

**Speedy Pencil**. Write as much as you can remember in 5 minutes



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