

# HEAP BRIDGE VILLAGE PRIMARY SCHOOL

Knowledge Organiser: **Science – Everyday materials**

**YEAR 1:** Autumn

## Key objectives:

- 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.

## Scientific vocabulary:

### Basic

Wood, plastic, glass, metal, rock, brick, paper, fabric, elastic, foil, cardboard, rubber, wool, clay, hard, soft.

### Subject Specific

Stretchy, stiff, bendy, rough, smooth, shiny, dull, strong, furry, weak, tough, material, object.

### Challenge

**Opaque:** Not see-through

**Transparent:** See-through

**Rigid:** Unable to bend or be forced out of shape.

**Waterproof:** Not able to soak up liquid easily.

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

**Brittle:** Hard but likely to break easily.

**Fragile:** Easily broken or damaged.

## Scientific knowledge:

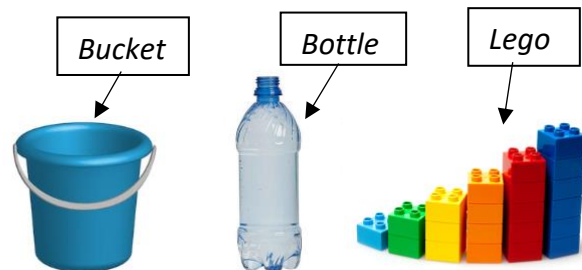
**Wood** – this is a natural material.



Wooden objects are usually

- Stiff
- Strong
- Opaque
- Hard
- Tough
- Rigid

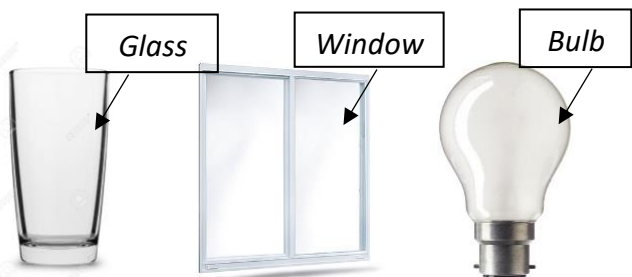
**Plastic** – this is a man-made material.



Plastic objects are usually

- Waterproof
- Stiff
- Strong
- Hard

**Glass** – this is a man-made material.



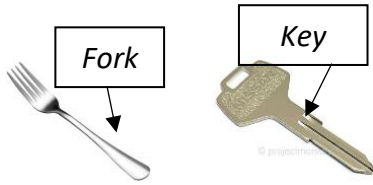
Glass objects are usually

- Transparent
- Smooth
- Stiff
- Rigid
- Hard
- Fragile

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## Scientific knowledge:

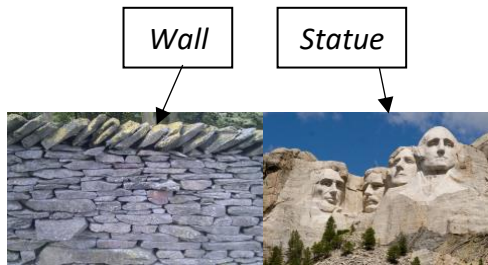
**Metal** - this is a natural material.



Metal objects are usually

- Opaque
- Hard
- Waterproof
- Stiff

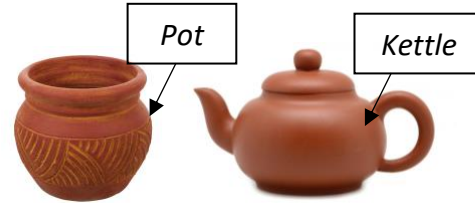
**Rock** - this is a natural material.



Rock objects are usually

- Transparent
- Hard
- Rough
- Stiff
- Strong
- Strong

**Clay** - this is a natural material.



Clay objects are usually

- Hard
- Waterproof
- Dull
- Stiff
- Brittle

**Rubber** - this is a man-made material.



Rubber objects are usually

- Dull
- Bendy
- Smooth
- Soft
- Opaque
- Waterproof

## Famous jobs:

Glass blowing - [https://www.youtube.com/watch?v=m2Au\\_lE6PY4](https://www.youtube.com/watch?v=m2Au_lE6PY4)

Wood carving - <https://www.youtube.com/watch?v=hXaeVOwFnys>

Pottery making - [https://www.youtube.com/watch?v=Br\\_hc2dvQmQ](https://www.youtube.com/watch?v=Br_hc2dvQmQ)

## Homework challenges:

*I can identify objects which are made out of the other materials we will be learning about in school.*

*(Paper, fabric, brick, metal, cardboard, foil and wool)*

## Useful websites for further reading:

<https://www.bbc.com/bitesize/clips/z7qd7ty>

<https://www.theschoolrun.com/what-are-materials>