Everyday materials

Objects and their purpose

An **object** is something that can be seen or touched.

An object's **purpose** is what we use it for.



· Object: spoon

· Purpose: to eat with



Object: hat

Purpose: keep head warm

Materials

Objects can be made of different materials.



Object: table

• Material: wood



Object: bottle

Material: plastic

Materials can be **natural** or **man-made** (humans made them):

Natural materials:

metal

wood

cotton

rubber

Man-made materials:

paper

plastic

glass

Physical properties of materials

- dull: something that is not clear, bright or shiny.
- hard: describes something that is firm. If you push it, it will not change shape.
- rough: describes something that feels bumpy to touch.
- shiny: describes something that appears bright because it reflects light.
- soft: describes something that is not firm, that you can push your fingers into.
- smooth: describes something that does not feel bumpy to touch, fingers slide easily over it.



Uses of everyday materials

Physical properties of everyday materials

Materials like wood, plastic, metal, brick, paper and carboard have different **physical properties**.

- absorbent: a material that soaks up liquid
- heatproof: a material that does not allow heat through
- malleable: a material that is easy to shape
- waterproof: a material that does not allow water through
- windproof: a material that does not allow wind through

Some materials can change shape



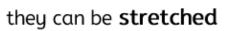
they can be **squashed**

they can be bent





they can be twisted



Using materials to make objects

Some objects are made from one type of material, but other objects are made from a combination of materials.

Different parts of the object need different properties, and using two materials solves this problem.

The handle of this mop is made from wood; it is <u>hard</u> and you can push it along the floor.

The head is made from an absorbent material.



and cold deserts Hot

What are deserts?

Deserts are places with very little precipitation. They have a very dry climate.

Deserts can be hot and dry, or cold and dry.

 precipitation: The fall of water as rain, sleet, snow or hail. climate: The long-term summary of the weather conditions.

Where are deserts found?



continents of the world. Deserts are found in all

Most hot deserts are near the Equator.

the North Pole or South Pole. Most cold deserts are near

What are hot and cold deserts like?

Hot deserts can have:



rocks



water is found) (a place where an oasis

small settlements

Cold deserts can have:



mountains



the land for a long time) (layers of ice that cover ice sheets



research stations (Antarctic)