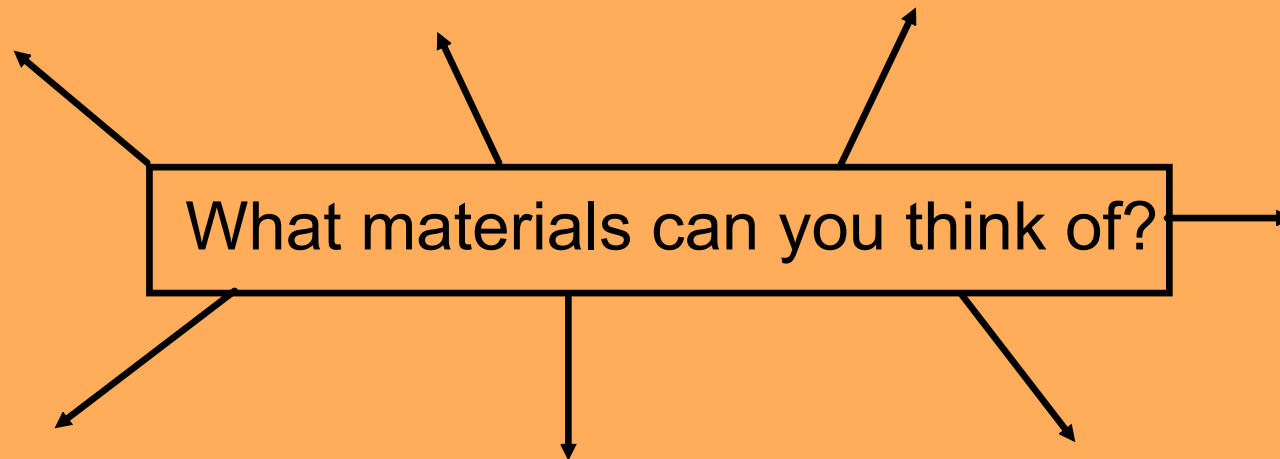




LQ: What is the difference between natural and man-made materials?

This term we are going to be learning about materials.

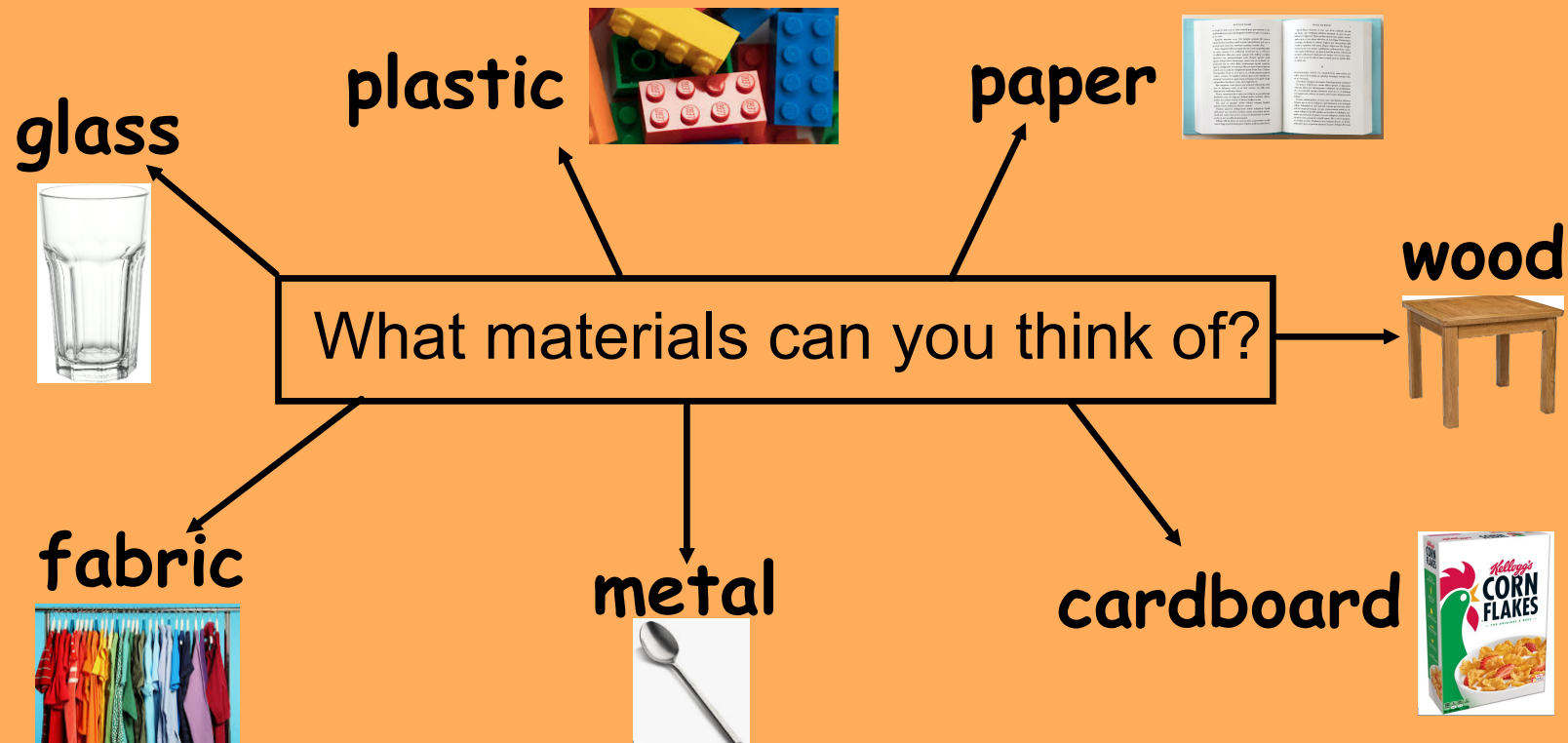


Can you think of objects that are made using these materials?



LQ: What is the difference between natural and man-made materials?

You may have thought of some of these materials:





LQ: What is the difference between natural and man-made materials?

Today we are going to be looking at the difference between natural and man-made materials.



**Have a think about
what the difference
may be...**



LQ: What is the difference between natural and man-made materials?

Natural Materials

These are materials that are 'naturally' found around us. We may have to dig them out of the ground, grow them, or take them from living things.



Wood

Wood comes from stems and roots of trees and other woody plants.

It isn't chemically processed so it is natural.

It is used for burning, building houses, benches, fences and lots of other things.



Coal

Coal is a black rock found underground.

It does not go through any chemical processes so it is a natural material.

It is burned for providing heat and producing electricity.



Cotton

Cotton is a soft, fluffy material that grows around the seed of the cotton plant.

There are no chemical processes used to make cotton so it is a natural material.

The cotton is spun into yarn to make a soft, breathable fabric.

Cotton is used to make clothes and furnishings.



LQ: What is the difference between natural and man-made materials?

Natural Materials

These are materials that are 'naturally' found around us. We may have to dig them out of the ground, grow them, or take them from living things.



Sand

Sand is made from ground up rock and mineral particles.

It is not chemically processed so it is a natural material.

It is used in concrete and making glass. It also has lots of other uses.



Chalk

Chalk is a soft white rock. It forms in and around the sea.

It isn't chemically processed so it is a natural material.

It is used for drawing/writing, it is in toothpaste and it is also used in sport.



Iron

Iron is a metal. There is lots and lots of iron on earth. It is found in the earth's crust and core.

It is not chemically processed therefore it is a natural material.

It is used to make gates, buildings, tools, fireplaces, piping and many more.



LQ: What is the difference between natural and man-made materials?

Man Made Materials

These are natural materials that are changed through chemical processes by 'man'.



Plastic

There are many types of plastic.

Plastics are man-made because they are made from chemically processed oil (a natural material).

Plastics are all around us. Some uses are plastic bottles, toys, stationery and technology casing.



Paper

Paper is made from wood (a natural material). Although the wood is chemically processed to make paper so therefore it is man-made.



Concrete

Concrete is a mixture of water, rock and sand and cement.

Cement causes a chemical reaction (process) which binds the water, rock and sand.

Because it is processed it is a man-made material.

It is used for buildings, walls, flooring and statues.



LQ: What is the difference between natural and man-made materials?

Man Made Materials

These are natural materials that are changed through chemical processes by 'man'.



Glass

Glass is man-made as silica and other materials are melted down and fused together (chemically processed) to create it.

It is used for glasses, bottles and windows.



Rubber

Rubber is made from a material from trees or petroleum.

Both ways the natural materials are chemically processed therefore rubber is man-made.

Rubber is used for tyres, shoe soles, erasers, toys and many more.



Steel

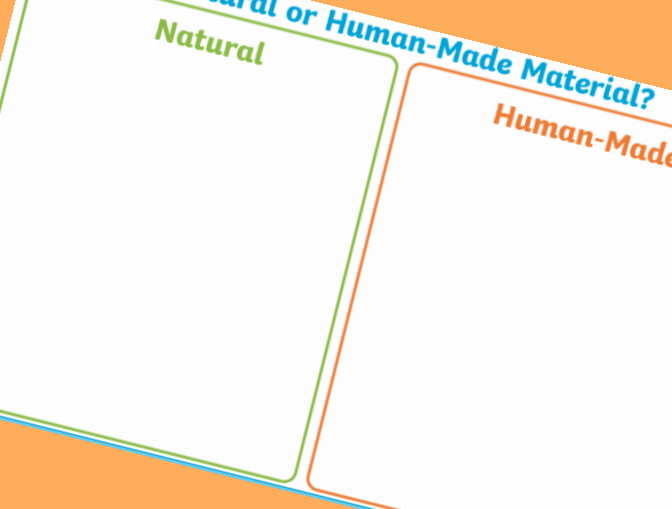
Steel is made from 2 natural materials: Iron and carbon.

Because natural materials have been chemically processed in the making it is man-made.

Steel is used for pans, utensils, buildings, aeroplanes and many other things.



You are now going to sort these materials into natural or man-made:



Natural or Human-Made Material?

Natural	Human-Made

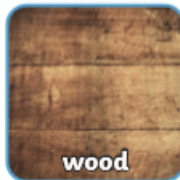


LQ: What is the difference between natural and man-made materials?

Check your answers:

Natural or Human-Made Material? Answers

Natural



wood



wool



sponge



stone



feather



sand



fur



ice

Human-Made



concrete



metal



paper



paint



glass



plastic



silk