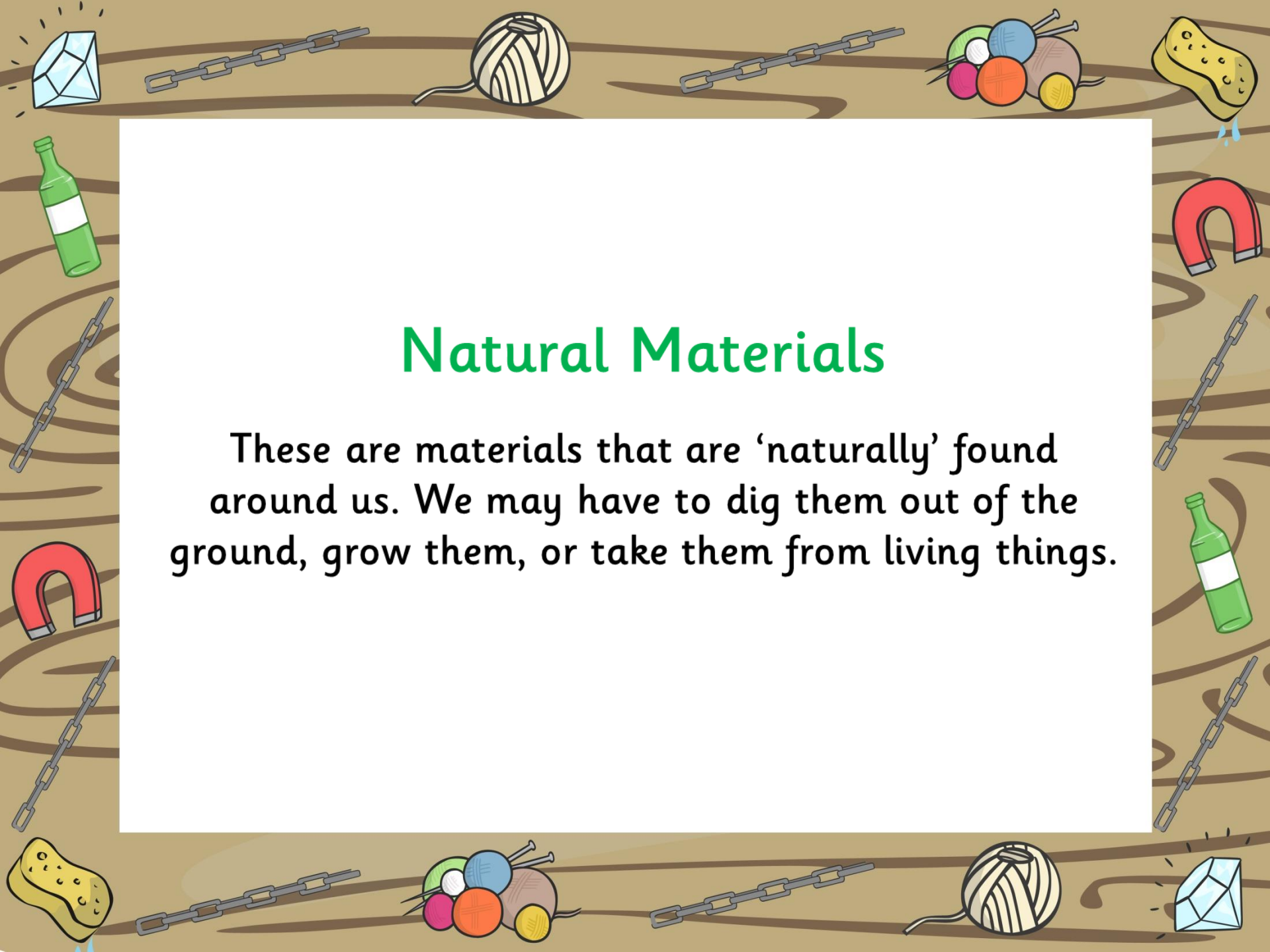


Man Made and Natural Materials





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 a natural material.

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

Cotton is used to make clothes and furnishings.



Gold

Gold is a metal found as nuggets in rocks.

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

Gold is melted down to make jewellery and gold teeth and used in industry.

Gold is also used for investment. It is kept in bars which are worth lots of money.



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.



Leather

Leather is a material created by the tanning of animal hide and skins. Usually from cattle.

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

It is used for shoes, jackets, other clothing, upholstery and also used in industry.





Organic Oil

Organic oil comes from
animals and vegetables.
Oil is a liquid.

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

Organic oil can be used in
cooking.

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.

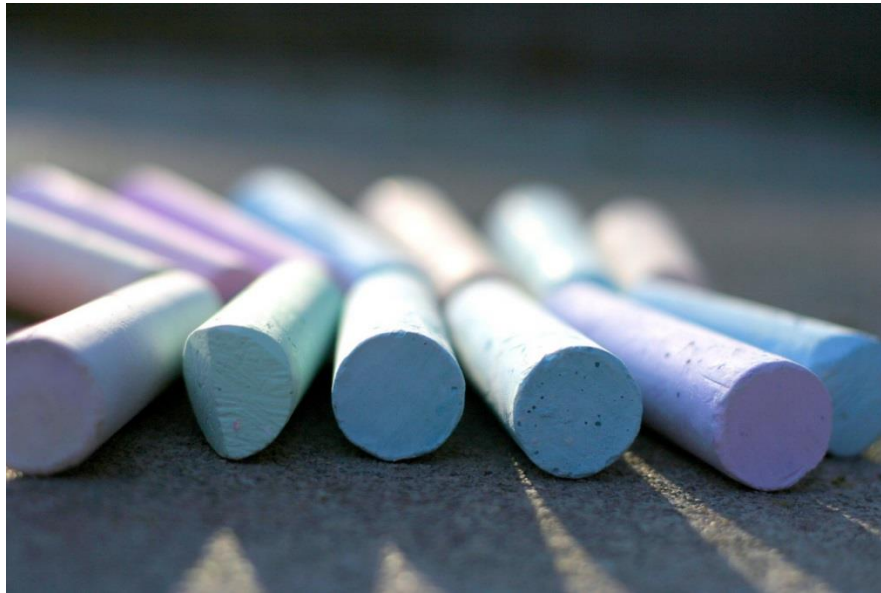


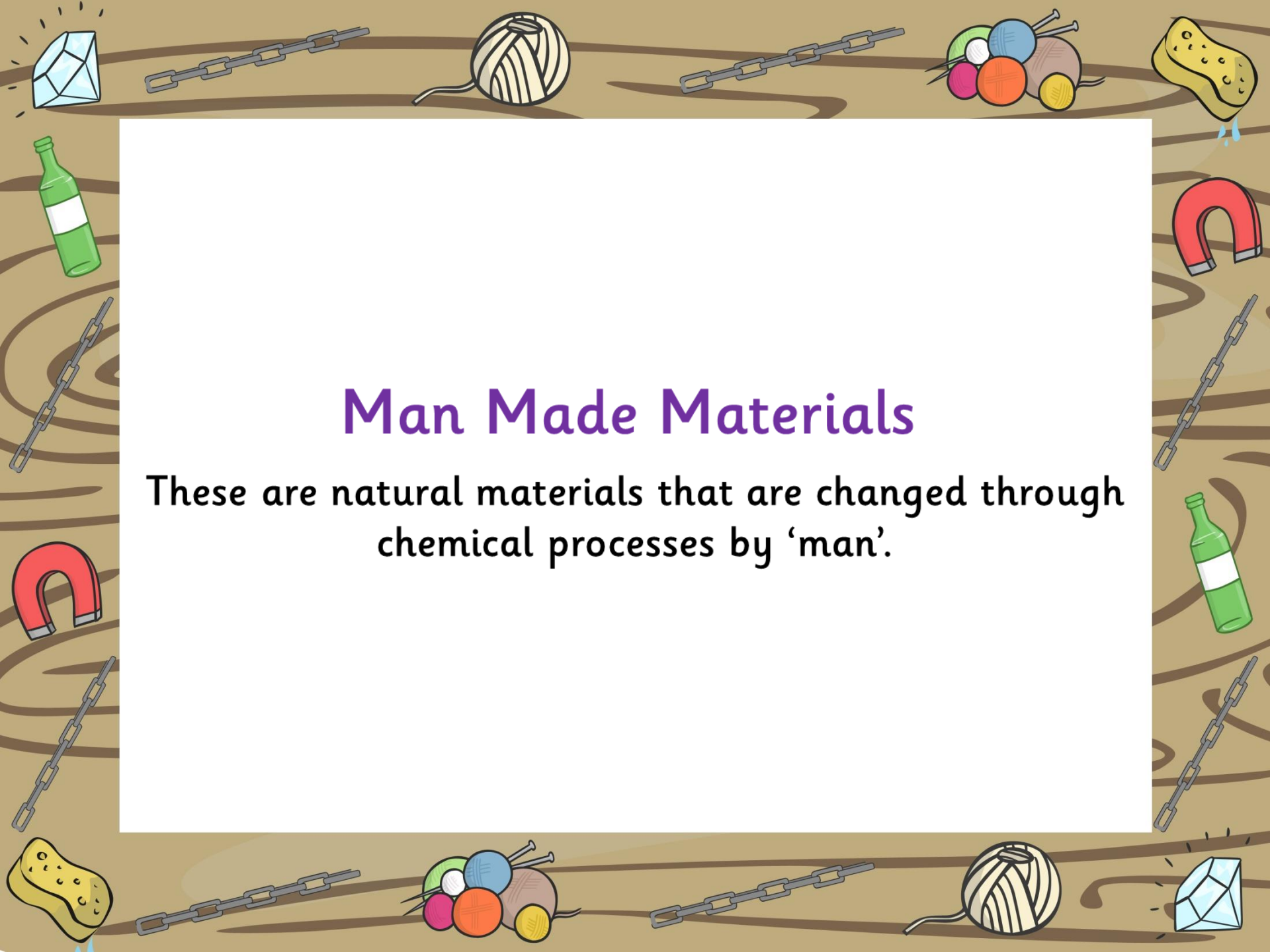
Chalk

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.





Man Made Materials

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

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.





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.



Nylon

Nylon is man-made as it is made from man-made polymers which are chemically processed.

It is used a lot in sportswear.
It is also used in other clothing, nets, toothbrushes and many other items.



Paper

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



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.

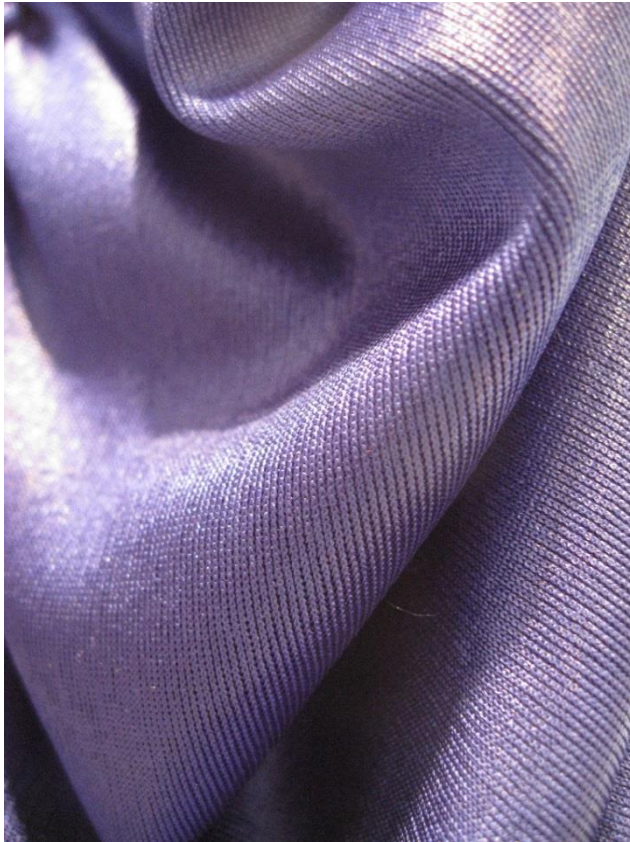
Plastic

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.





Rayon

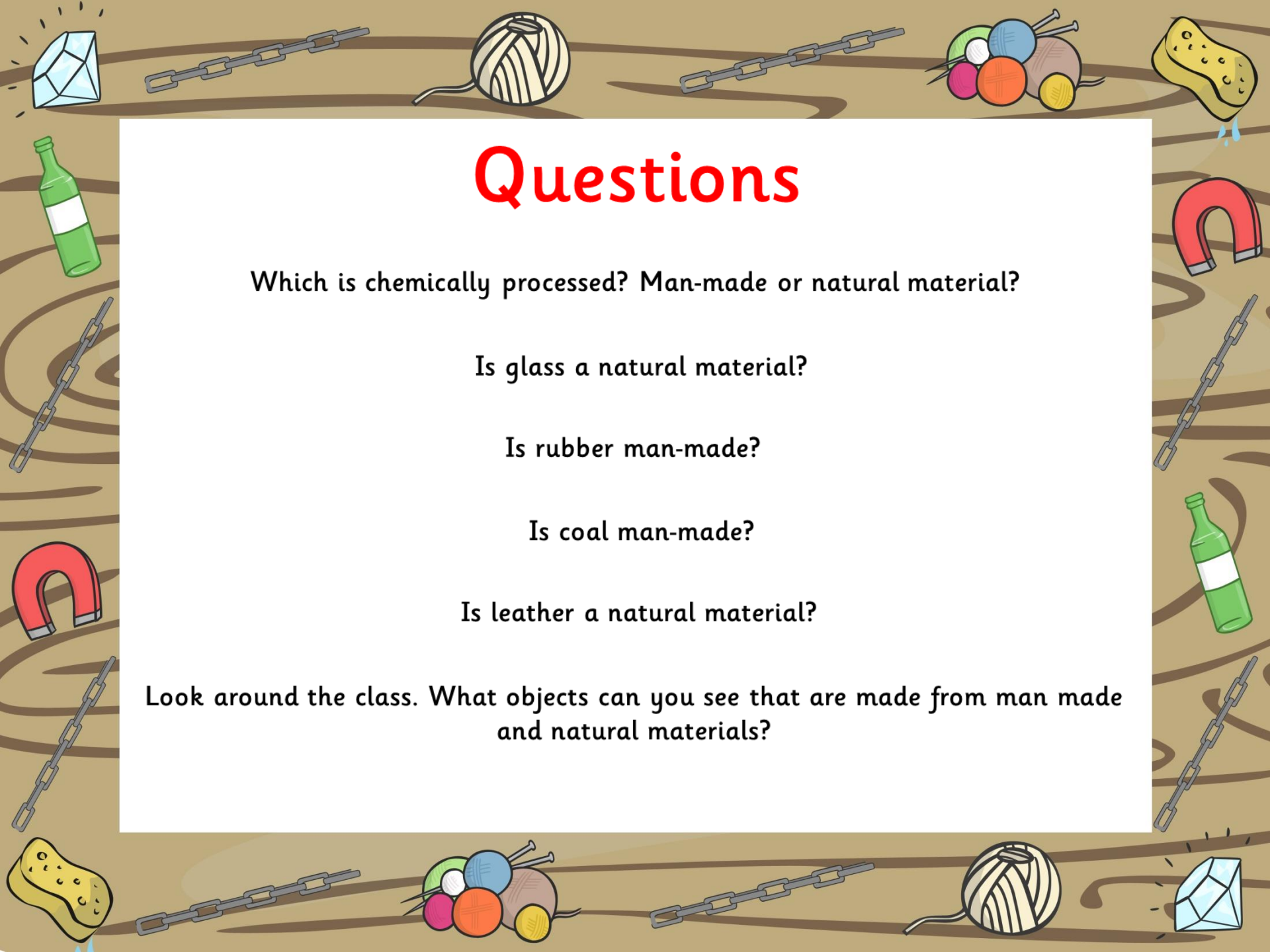
Rayon is a material made mostly from wood pulp.

The wood pulp is chemically processed so Rayon is man-made.

Rayon is used for clothing and furnishings.

Summary Table

Natural materials	Man-made materials
Wood Leather Oil Coal Cotton Iron Chalk Gold Sand	Glass Nylon Rayon Paper Steel Polyester Rubber Concrete Plastic



Questions

Which is chemically processed? Man-made or natural material?

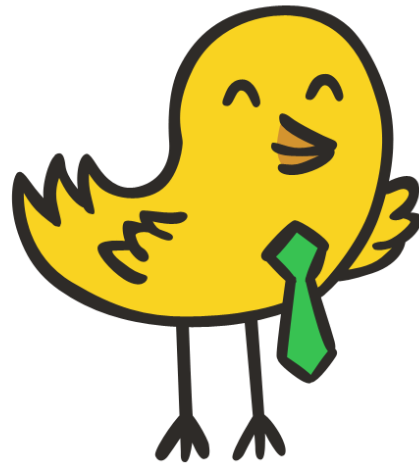
Is glass a natural material?

Is rubber man-made?

Is coal man-made?

Is leather a natural material?

Look around the class. What objects can you see that are made from man made and natural materials?



THE END

