

4^o



Natural Science

UDI 1. CONOZCO MI MUNDO.

UNIT 5 Matter

1. Matter

- Matter: is everything with MASS and VOLUME.

All living organisms and non living things are made with matter.

Mass

- Is the amount of matter in an object.
- We use **balance scale** to measure mass.
- We measure mass in **grams (g)** and **kilograms (kg)**



Volume

- Is the amount of space an object occupies.
- We use **beakers** to measure volume
- We measure volume in **millilitres (ml)** and **litres (l)**

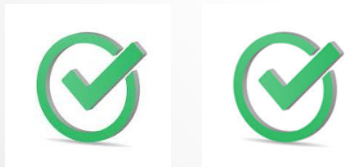


2. The three states of matter

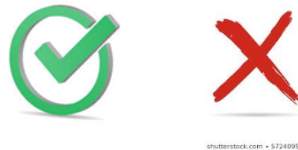
Matter can be solid, liquid or gas.



Solid have a **fixed shape and volume.**



Liquid don't have a fixed shape but have a **fixes volume.**



Gas don't have a fixed shape or volume



3. Materials and its properties.

A material is a matter with a particular characteristics.

- **DENSITY:** is the amount of mass in a specific volume



- **BUOYANCY:**



3. Materials and its properties.

HARD

ELASTIC

FLEXIBLE

STRONG

FLEXIBLE

cannot be scratched* easily

returns to original shape after stretching*

can be bent without breaking

can support weight without breaking

light can pass through



4. Using different materials

WOOD



- Is a **natural** material.
- We use wood to make **furniture, toys and paper.**
- We also burn it as **fuel.**

PLASTIC



- Is a **man-made** material.
- We **make it from petroleum.**
- Is used for so **many different things,** from car parts to toys.

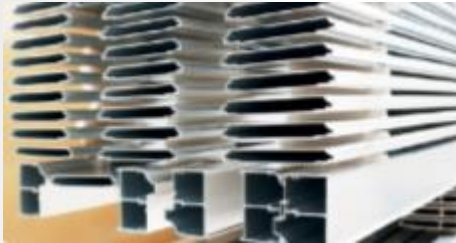
FIBRES



- Can be **natural or man-made materials**
- Cotton is made from **plants**
- Wool is made from **animals.**
- Nylon and polyester is made from **petroleum** •

4. Using different materials

METALS



- **Iron and gold** are extracted from minerals.
- Are **strong and hard**.
- Can use them for many things like **cars, tool and ships**.

GLASS



- Is a **man-made** material.
- We **make glass** by heating sand to a **very high temperature**.

FIBRES



- Is a **mand-made materials**.
- We use it to make **pots, plates and cups**.
- Bake them in a hot oven until is hard