

3º



# Natural Science

**UDI 2. CONOZCO MI MUNDO.**

UNIT 5 Matter ( 1º parte)

# 1. Matter

## 1.1 What is matter?

- **Matter: is everything with MASS and VOLUME.**  
All living organisms and non living things are made with matter.

## 1.2 What are mass and volume??

### 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)**



Balance scales

### Volume

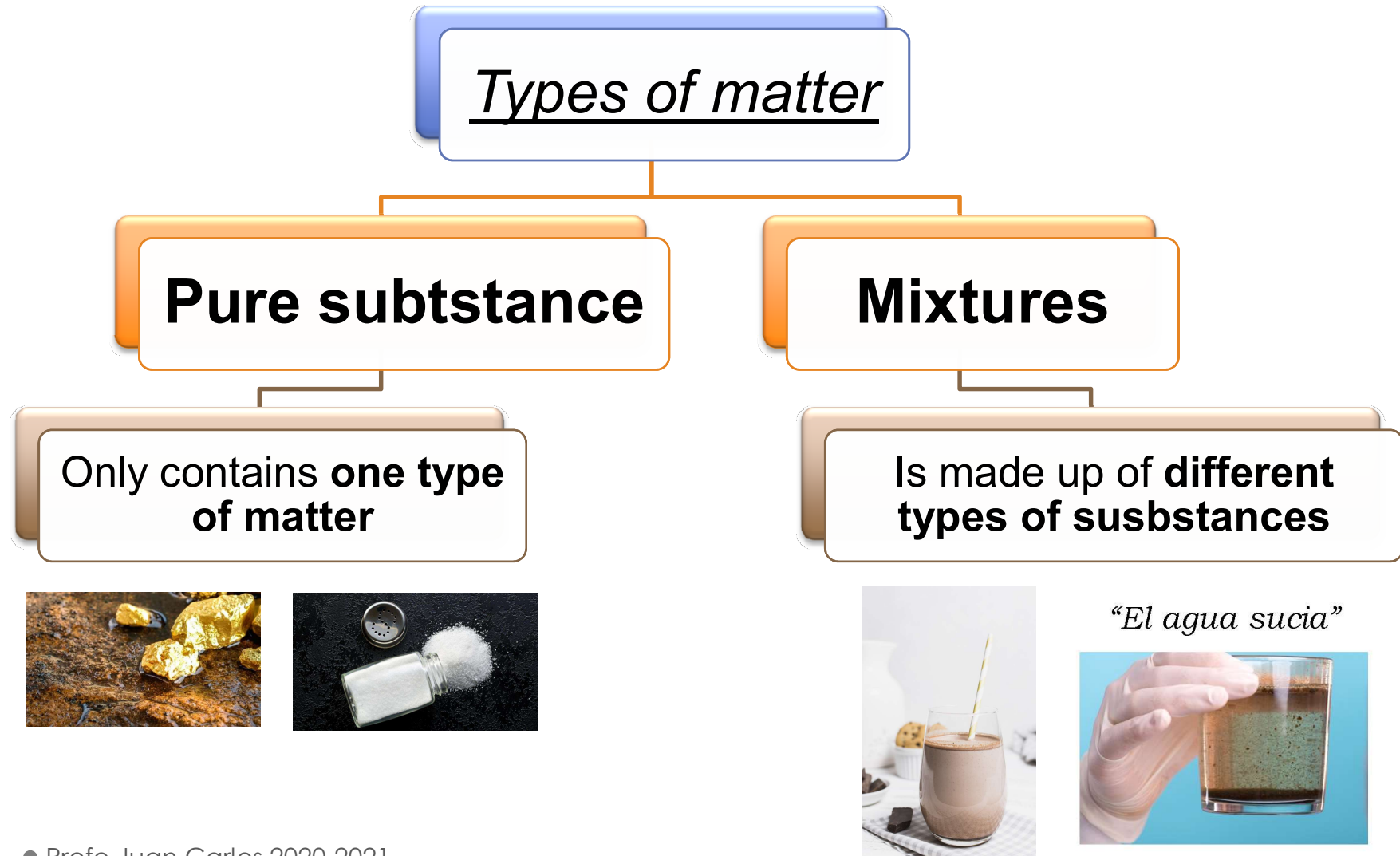
- Is the amount of space an object occupies.
- We measure volume in **litres (l)**



Beakers

# 1. Matter

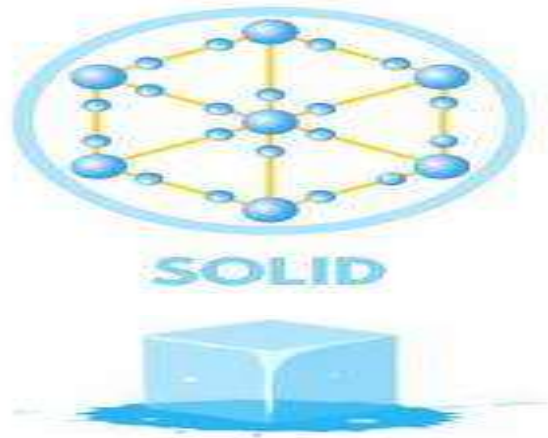
## 1.3 What is pure substances and mixtures?



# 2. States of matter

## 2.1 . How do we classify matter?

Matter is found as a **solid, liquid or gas.**



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



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



Gas **don't have a fixed shape or volume**



## 2. States of matter

### 2.2 . How can matter change?

Change the shape



By applying a force

Change the state  
of matter



By changing the temperature

When something burns there a chemical reactions called **combustion** that produce light and heat



## 2. States of matter

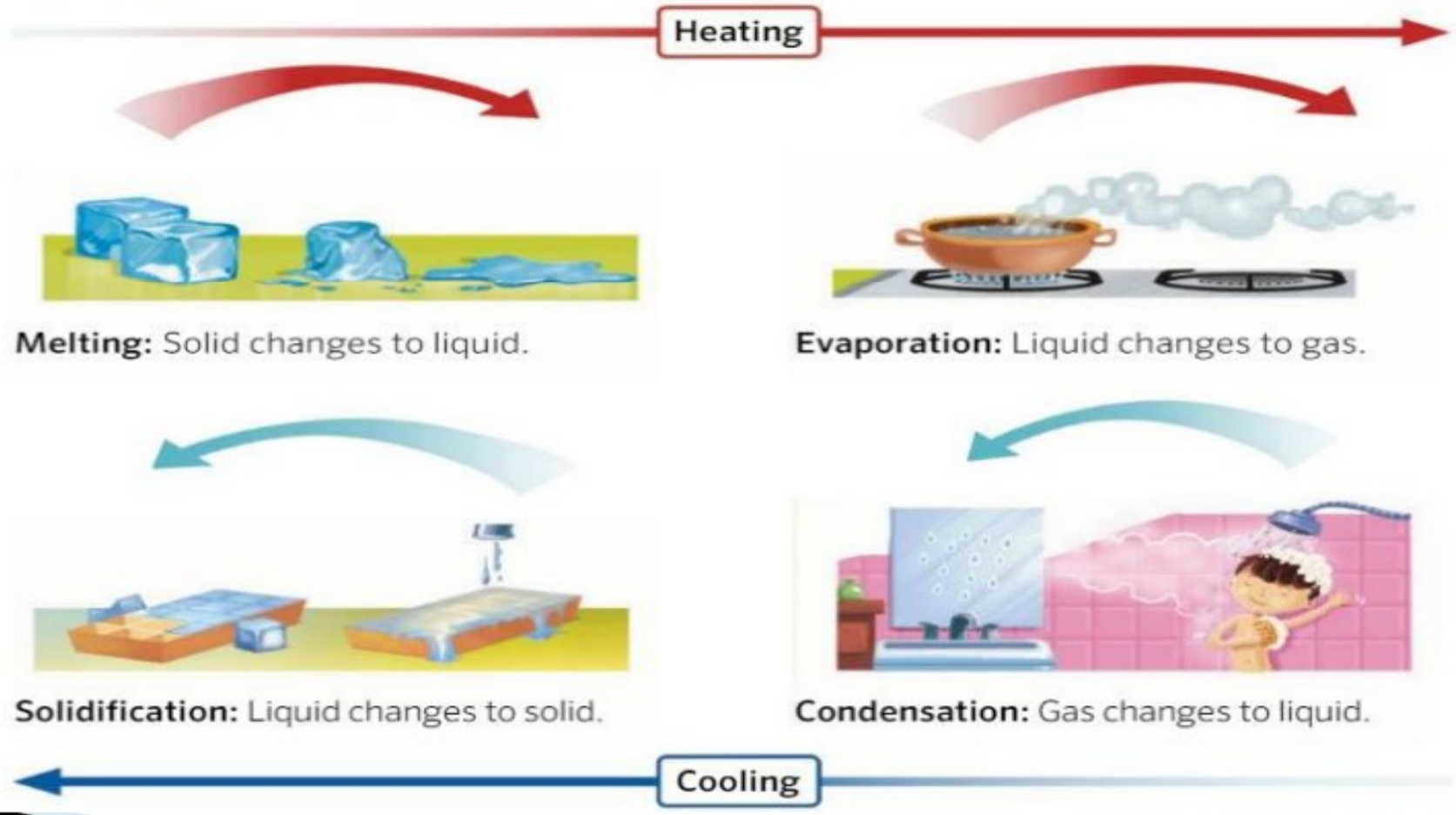
### 2.3 What are the three states of water ?



# 2. States of matter

## 2.3 What are the three states of water ?

### Changes of state



# 3. Materials

## 3.1 What is materials?

- **Material are made with matter**

**Man-made materials**

**Natural materials**



We use natural materials to made man-made materials.

**-Paper:** wood and resin

**-Man-made metals:** by combining natural metals

**-Glass:** melting sand and minerals

**-materials like plastic, polyester and petrol** is made using petroleum