# *BOOKLET 8: MATTER*

NAME: _____ CLASS: _____

**1) Put these objects in order from light to heavy.**

| | **Feather** | | **Chair** | | **Car** | | **Glass Jug** | | **Plastic Bottle** |
|---|---|---|---|---|---|---|---|---|---|

**2) Complete the table:**

**ORANGE JUICE, SMOKE** (humo), **GARAGE DOOR, FIZZY DRINK** (bebida gaseosa), **AIR, BOOK**

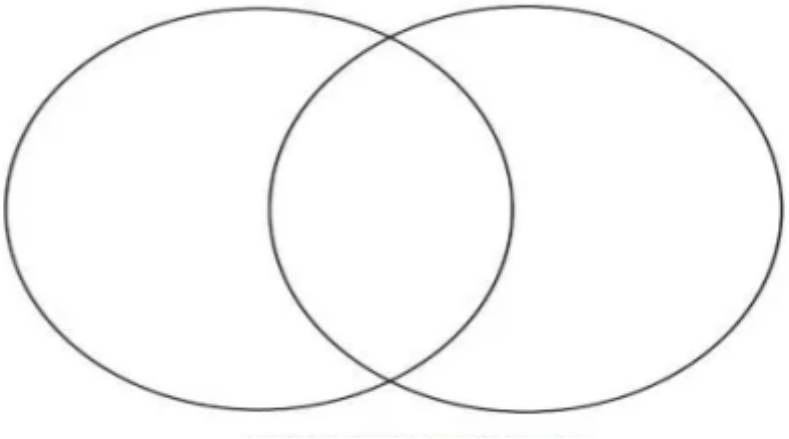
| **SOLID** | **LIQUID** | **GAS** |
|---|---|---|
| | | |
| | | |

**3) Complete the Venn diagram:**

1) It is white; 2) It comes from an animal; 3) It is a liquid; 4) It is a solid; 5) It comes from a plant; 6) They are foods; 7) You can see it; 8) You can touch it; 9) It is red.

Glass of milk





Red apple



**4) ARE THESE OBJECTS ARTIFICIAL OR NATURAL?: Plastic (plástico); glass (cristal); silk (seda); diamonds (diamantes), sand (arena), cotton (algodón), leather (cuero), paper (papel), wood (madera).**

| **NATURAL** | **ARTIFICIAL** |
|---|---|
| | |

**5) MATTER: Complete:**

Everything that is exists is _____. All living and non - living things are made of _____.

Matter is made of different _____.

NATURAL MATERIALS come from : _____

Examples: _____

ARTIFICIAL MATERIALS are: _____.

Examples: _____

**Matter exist in 3 states: _____, _____ and _____**

**6) THE THREE STATES OF MATTER: (shape es la forma de algo; always es siempre):**

| | |
|---|---|
| **Takes the shape of the container but NO expand.** | **-** |
| **Takes the shape of the container AND expands.** | **-** |
| **Have always the same shape.** | |

**7) Copy the pictures and text of page 7.**

| |
|---|
| **All matter has VOLUME and MASS** |

**8) Choose the right option: (Iron = hierro; has more = tiene más)**

| | | |
|---|---|---|
| **The amount of matter is….** | **MASS VOLUME MATTER** | **-** |
| **The space the matter occupies is...** | **MASS MATTER VOLUME** | **-** |
| **1 kg of plastic has more volume than 1 Kg of iron: TRUE/FALSE** | | |
| **1 Kg of plastic has more mass than 1 Kg of iron (hierro): TRUE/FALSE** | | |

**9) WRITE THE THREE CHARACTERISTICS OF WATER:**

_____

_____

_____

**10) CHARACTERISTICS OF WATER. MATCH**

| | | |
|---|---|---|
| **Colourless** | **No smell** | **Inodora** |
| **Odorless** | **No taste** | **Incolora** |
| **Tasteless** | **No colour** | **Insípida** |

**11) ANSWER THE QUESTIONS:**

- **At what temperature the water becomes GAS? _____.**
- **Water is LIQUID between _____ and _____.**
- **Water is SOLID below _____.**

**12) HOW IS THE WATER AT THESE TEMPERATURES: SOLID, LIQUID OR GAS?**

| | | | | | |
|---|---|---|---|---|---|
| **-15º** | | **1º** | | **-20º** | |
| **35º** | | **-1º** | | **30º** | |
| **120º** | | **135º** | | **17º** | |

**13) HOW IS THE WATER?**

| | | | |
|---|---|---|---|
|  |  |  |  |
| | | | |

**14) CHANGES OF STATE: FUSION = MELTING; EVAPORATION**

| | | | |
|---|---|---|---|
|  |  |  |  |
| | | | |

**15) CHANGES OF STATE: SOLIDIFICATION (FREEZING IN WATER); CONDENSATION**

| | | | |
|---|---|---|---|
|  |  |  |  |
| | | | |

**16) WRITE THE RIGHT OPTION**

| | | |
|---|---|---|
| **From solid to liquid.** | **Fusion Condensation Evaporation** | |
| **From liquid to solid.** | **Condensation Solidification Fusion** | |
| **From vapour to liquid.** | **Evaporation Condensation Fusion** | |
| **From liquid to vapour.** | **Solidification Evaporation Condensation** | |

**17) MAKE A PICTURE OF....**

| **EVAPORATION (EVAPORACIÓN)** | **CONDENSATION (CONDENSACIÓN)** |
|---|---|
| | |
| **FUSION (FUSIÓN)** | **SOLIDIFICATION (SOLIDIFICACIÓN)** |
| | |

**18) MIXTURES (MEZCLAS): Answer these questions:**

| **What are the mixtures where we put two or more substances and WE CAN SEE THEM separately?** | **What are the mixtures where we put two or more substances BUT WE CAN'T SEE THEM separately?** |
|---|---|
| | |

**19) ARE THESE MIXTURES HOMOGENEOUS OR HETEROGENEOUS?**

| **ORANGE JUICE** | **FRUIT SALAD** | **COFFEE WITH MILK** | **PIZZA** |
|---|---|---|---|
| | | | |