

# UNIT 5: MATTER AND FORCES

Write the words for the definitions.

- a \_\_\_\_\_ : the space that matter occupies.
- b \_\_\_\_\_ : the ability of substances to conduct or transfer heat.
- c \_\_\_\_\_ : the amount of matter in an object.
- d \_\_\_\_\_ : the scratch-resistance of a solid.
- e \_\_\_\_\_ : the amount of matter in a volume. It also explains why some objects float and others sink.
- f \_\_\_\_\_ : the ability of a substance to dissolve in other substance and form a solution.

2. Classify the words into the correct column

liquid	gas	solid
_____	_____	_____
_____	_____	_____
_____	_____	_____

CO<sub>2</sub>    orange juice    ice    dust    olive oil

helium    perfume    oxygen    grass

3. Use capital letter (mayúsculas)

Which of these changes of matter are physical or chemical? Write (P) or (C).

- |                  |                          |                                 |                          |
|------------------|--------------------------|---------------------------------|--------------------------|
| a fermentation   | <input type="checkbox"/> | e oxidation                     | <input type="checkbox"/> |
| b frying an egg  | <input type="checkbox"/> | f sharpening a pencil           | <input type="checkbox"/> |
| c folding paper  | <input type="checkbox"/> | g dissolving sugar in tea       | <input type="checkbox"/> |
| d breaking glass | <input type="checkbox"/> | h sieving sand and small stones | <input type="checkbox"/> |

4. Look at the photos about changes of matter. Complete the table with a tick depending of their properties.



photo	physical change	chemical change	reversible	irreversible
a				
b				
c				
d				
e				
f				

5. Indicate the photo in activity 4 that shows the following change.

a oxidation ☐

b combustion ☐

6.

**What method do we need to separate the following substances? Answer.**

- salt from sea water → .....
- sand and small rocks → .....
- paperclips and marbles → .....
- flour and uncooked rice → .....
- tea leaves and hot water → .....
- pure water from sea water → .....
- spaghetti and boiling water → .....
- sand and water → .....

