1 **Match the words and the definitions.**

a pure substance an atom an element a molecule a compound

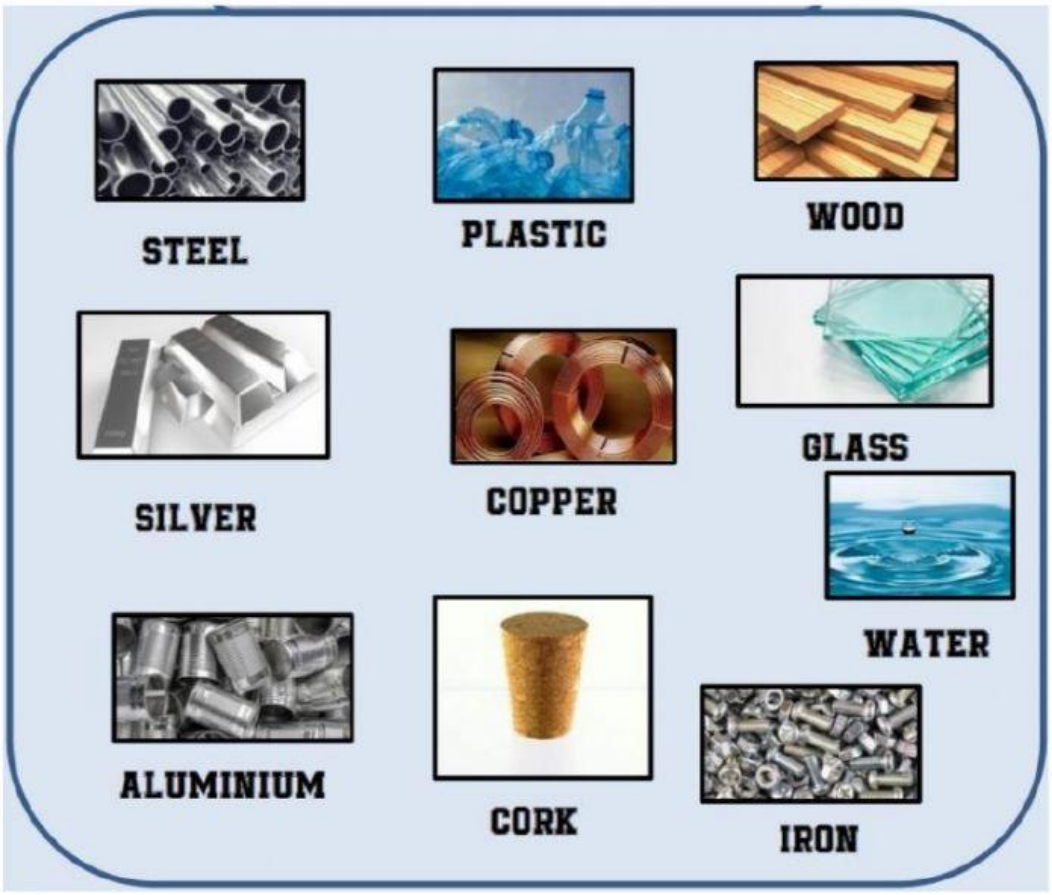
1. This is the smallest particle of matter. It's _____.
2. This is formed by two or more different atoms. It's _____.
3. This is a substance made of one type of atom. It's _____.
4. This is a substance made of one type of molecule. It's _____.
5. These are elements and compounds. It's _____.

2) Now classify the following words:

Fe CO2 Gold water vinegar

Atom	Molecule	Pure substance element	Pure substance compound	Mixture

3) Write conductor or insulator.



LIVEWORKSHEETS

4 **Complete the paragraph.**

can	can't	insulator	conductor	slowly	fast	heat	move

Molecules in matter always _____. At low temperatures they move _____ and at high temperatures they move _____. We feel this movement as _____.
In metal the molecules _____ move a lot. Metal gets very hot. It's a thermal _____.
In plastic the molecules _____ move a lot. Plastic doesn't get hot. It's a thermal _____.

5 **Match and write the sentences in your notebook.**

a) Two or more different atoms...
b) A pure substance has...
c) In a thermal conductor...
d) In a solution different molecules from...
e) In a chemical change...

1. the molecules can move about.
2. join together to make a molecule.
3. new molecules are formed.
4. only one type of atom or molecule.
5. the solvent and the solute mix together.

6 Think **Choose the correct answer.**

a) **Which are pure substances?**
1. elements and compounds
2. atoms and molecules
3. elements and mixtures.

b) **Which are thermal insulators?**
1. wood and metal
2. glass and plastic
3. wood and plastic.

c) **Which is the solute in hot chocolate?**
1. milk
2. chocolate
3. water.

d) **Which are physical changes?**
1. changing place and state
2. burning and rusting
3. changing temperature and burning.

e) Which is the property of a ceramic pot?

1. Elastic.

2. Fragile.

3. Tough

f) Which is the property of a rubber band?

1. Hard.

2. Elastic.

3. Plastic

g) Which is the property of a golden ring?

1. Soft

2. Tough

3. Fragile

h) Which is the property of a book?

1. Plastic

2. Hard

3. Elastic

LIVEWORKSHEETS

7 Think! **Write *homogeneous* or *heterogeneous* under each mixture.**






_____ _____ _____ _____

8 Think! **Identify the solute and solvent in each of these solutions.**

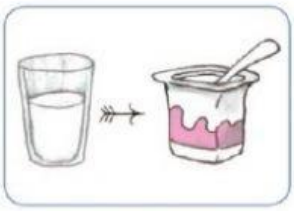
Solution	Solute	Solvent
strawberry milkshake	_____	_____
salt water	_____	_____
sweet tea	_____	_____
chocolate yogurt	_____	_____
lemon sorbet	_____	_____

9) Read and identify the types of change: physical or chemical.

Their molecules move about but there structure doesn't change. The substance is the same.

New molecules are made and the matter is changed forever.

10 Think! **Write under each change *physical* or *chemical*.**


Milk changes into yogurt.

_____


A piece of fruit rots.

_____


Milk is warmed for a baby.

_____


A comb falls on the floor.

_____


A can rusts.

_____


A piece of wood burns.

_____

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