

1 Match the words and the definitions.

a pure substance an atom an element a molecule a compound

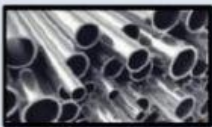
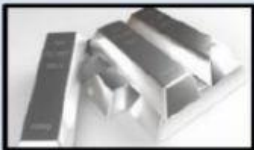
1. This is the smallest particle of matter. It's _____.
2. This is formed by two or more different atoms. It's _____.
3. This is a substance made of one type of atom. It's _____.
4. This is a substance made of one type of molecule. It's _____.
5. These are elements and compounds. It's _____.

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.

		
STEEL	PLASTIC	WOOD
		
SILVER	COPPER	GLASS
		
ALUMINIUM	CORK	WATER
		
		IRON

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... | 1. the molecules can move about. |
| b) A pure substance has... | 2. join together to make a molecule. |
| c) In a thermal conductor... | 3. new molecules are formed. |
| d) In a solution different molecules from... | 4. only one type of atom or molecule. |
| e) In a chemical change... | 5. the solvent and the solute mix together. |

6 Think Choose the correct answer.

- | | |
|----------------------------------|--|
| a) Which are pure substances? | c) Which is the solute in hot chocolate? |
| 1. elements and compounds | 1. milk |
| 2. atoms and molecules | 2. chocolate |
| 3. elements and mixtures. | 3. water. |
| b) Which are thermal insulators? | d) Which are physical changes? |
| 1. wood and metal | 1. changing place and state |
| 2. glass and plastic | 2. burning and rusting |
| 3. wood and plastic. | 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

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



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

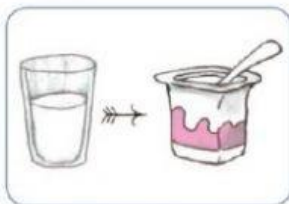
Solution	Solute	Solvent
strawberry milkshake	_____	_____
salt water	_____	_____
sweet tea	_____	_____
chocolate yogurt	_____	_____
lemon sorbet	_____	_____

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

Their molecules move about but their 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.
