



- 1. Match up the descriptions on the left-hand side with their opposites on the right.
 - Hard •
 - Rigid •
 - Strong •
 - Rough •
 - Shiny •
 - Brittle •
 - Transparent •
 - Waterproof •
 - Electrical Conductor •
 - Thermal Conductor •

- Dull
- Absorbent
- Electrical Insulator
- Opaque
- Smooth
- Flexible
- Thermal Insulator
- Soft
- Weak
- Tough

2. Identify the words from the lists above described here.

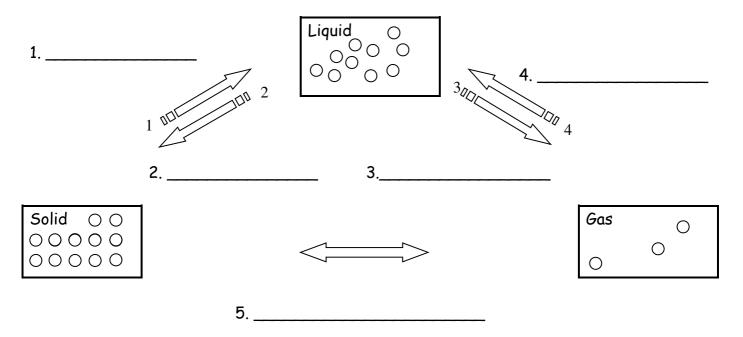
- a. Bendy _____
- b. Will shatter easily _____
- c. Will let light through _____
- d. Not very reflective _____





A. Choose words from this list to complete the spaces below:

condensation, melting, sublimation, evaporation, freezing



B. Say whether the events below are examples of melting, freezing, evaporation, condensation or sublimation:

- a. The ice cubes in my drink have disappeared.
- b. The puddles have all dried up.
- c. The mirror in the bathroom has misted up.
- d. The cold night has left ice on the roads.
- e. There seems to be smoke coming off the Iodine block.
- f. My ice cream has dripped down my shirt.
- g. There is steam coming off that hot water.
- h. My clothes are all dry now.

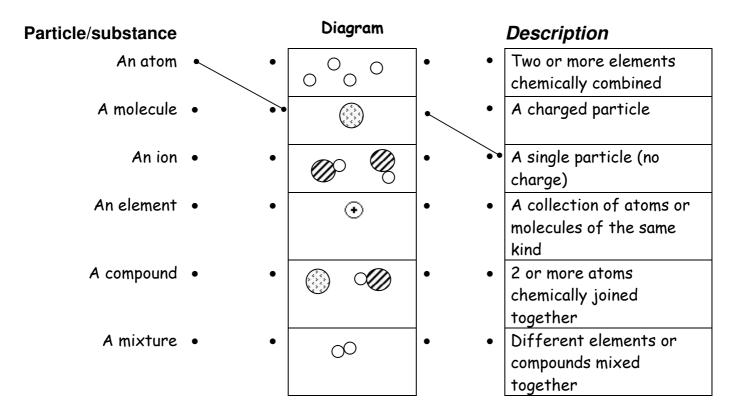
C. Say whether you need to add heat, or remove heat to make these things happen:

- **a**. Freeze water to make ice.
- b. Melt an ice cream.
- c. Boil some water.
- d. Change a gas into a liquid.
- e. Change a liquid into a solid.
- f. Change a solid into a gas.
- g. Dry off some clothes.





A. Link each particle or substance with the correct diagram and description. The first has been completed for you.



B. Study the diagrams and decide which one each statement below is describing.

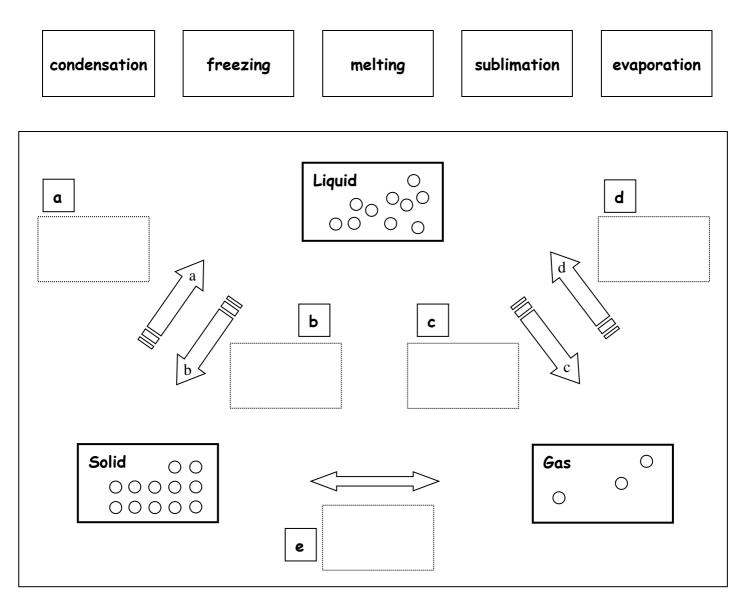
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e 🤅)))		f	00 Ø	Ø 00	h	0000	0 C

- 1. Atoms of a single element ____
- 2. Molecules of a single element ____
- 3. A mixture of 2 elements, both of which are made of atoms ____
- 4. A mixture of 2 elements, both of which are made of molecules ____
- 5. A mixture of 2 elements, one of which is made of atoms, the other molecules _____
- 6. A pure compound made of molecules ____
- 7. A pure compound made of ions ____
- 8. A mixture of 2 compounds ____





1. Place these **5** words in the correct places on the diagram.



2. Circle the correct spelling from each list:

۵.	evaparation	evaporation	evapporation	evaporasion
b.	condensasion	condennsation	condensetion	condensation
с.	frezzing	frezing	freezing	freezin
d.	melting	meltting	mellting	meelting
e.	sublimmation	sublimation	sublemation	sublimetion

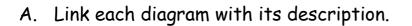
3. Are these things examples of melting, freezing, evaporation or condensation? Circle the correct word.

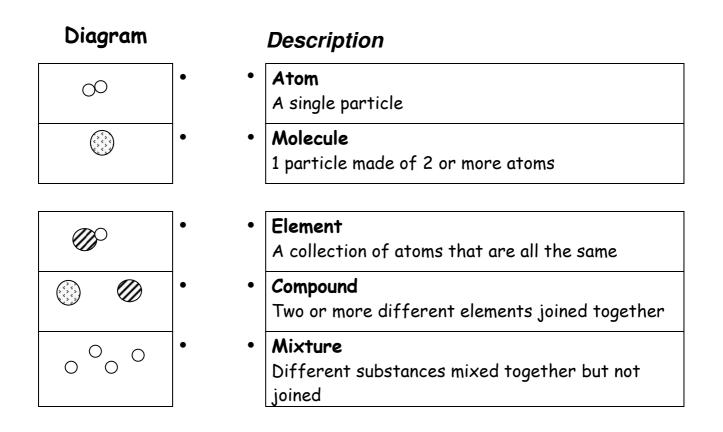
۵.	The ice cubes in my drink have disappeared	melting	freezing	evaporation	condensation
b.	The mirror in the bathroom has misted up	melting	freezing	evaporation	condensation
c.	The cold night has left ice on the roads	melting	freezing	evaporation	condensation
d.	My ice cream has dripped down my shirt	melting	freezing	evaporation	condensation
e.	There is steam coming off that hot water	melting	freezing	evaporation	condensation
f.	My clothes are all dry now	melting	freezing	evaporation	condensation

4. Do you need to add heat, or remove heat to make these things happen?

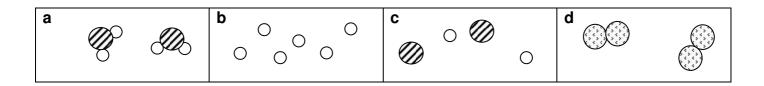
۵.	Freeze water to make ice	Add heat	Remove heat
b.	Melt an ice cream	Add heat	Remove heat
c.	Boil some water	Add heat	Remove heat
d.	Dry off some clothes	Add heat	Remove heat
e.	Change a gas into a liquid	Add heat	Remove heat
f.	Change a liquid into a solid	Add heat	Remove heat
g.	Change a solid into a gas	Add heat	Remove heat







B. Study the diagrams and decide which each statement below is describing.



- 1. Atoms of an element ____
- 2. Molecules of an element ____
- 3. A mixture of 2 elements, both of which are made of atoms _____
- 4. A pure compound made of molecules _____

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- 1. Match up the descriptions on the left-hand side with their opposites on the right.
 - Hard •----

Rigid •

- SoftFlexible
 - Plexit
 Weak
- Strong •
- Rough •
- Shiny •
- Brittle •
- Transparent •
- Waterproof •
- Electrical Conductor
 - Thermal Conductor •

- Smooth
- Dull
- Tough
- Opaque
- Absorbent
- Electrical Insulator
- Thermal Insulator
- 2. Identify the words from the lists above described here.
 - a. Bendy = Flexible
 - b. Will shatter easily = Brittle
 - c. Will let light through = Transparent
 - d. Not very reflective = Dull

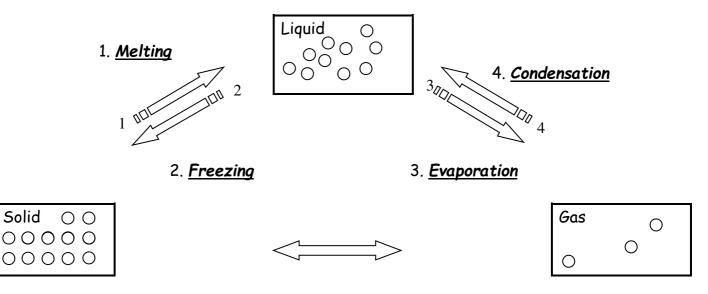
3. Use words from the lists to describe each of these materials

- j. Wood = Hard. Rigid. Tough. Waterproof. Opaque. Insulator (both).
- k. Glass = Hard. Rigid. Smooth. Brittle. Waterproof. Transparent.
- I. Wool = Soft. Flexible. Absorbent. Opaque.
- m. Aluminium foil = Flexible. Smooth. Shiny. Conductor (both).
- n. Plastic = Hard. Rigid. Smooth. Tough. Waterproof. Insulator (both).
- o. Tissue = Soft. Flexible. Absorbent. Weak. Opaque.
- p. Leather = Soft. Flexible. Tough. Opaque.
- q. Paper = Flexible. Absorbent. Opaque.
- r. Diamond = Hard. Rigid. Shiny. Tough. Strong. Transparent.





B. Choose words from this list to complete the spaces below:



5. Sublimation

B. Say whether the events below are examples of melting, freezing, evaporation, condensation or sublimation:

- a. The ice cubes in my drink have disappeared. Melting
- b. The puddles have all dried up. *Evaporation*
- i. The mirror in the bathroom has misted up. Condensation
- j. The cold night has left ice on the roads. *Freezing*
- k. There seems to be smoke coming off the Iodine block. Sublimation
- I. My ice cream has dripped down my shirt. Melting
- m. There is steam coming off that hot water. Evaporation
- n. My clothes are all dry now. Evaporation

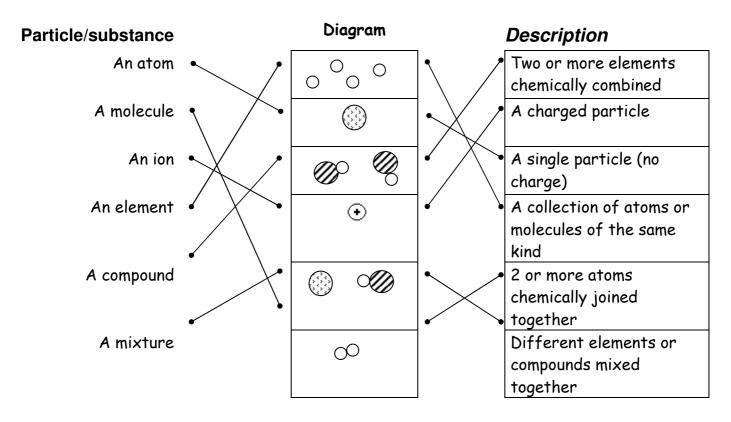
C. Say whether you need to add heat, or remove heat to make these things happen:

- h. Freeze water to make ice. Remove heat
- i. Melt an ice cream. Add heat
- j. Boil some water. Add heat
- k. Change a gas into a liquid. Remove heat
- I. Change a liquid into a solid. Remove heat
- m. Change a solid into a gas. Add heat
- n. Dry off some clothes. Add heat





A. Link each particle or substance with the correct diagram and description. The first has been completed for you.



B. Study the diagrams and decide which one each statement below is describing.

a	Ø	b	()() ()()	8	d	Ő	$\bigcirc \bigcirc \bigcirc$
e		f	00 Ø		h	000	0

- 1. Atoms of a single element = h
- 2. Molecules of a single element = e
- 3. A mixture of 2 elements, both of which are made of atoms = c
- 4. A mixture of 2 elements, both of which are made of molecules = b
- 5. A mixture of 2 elements, one of which is made of atoms, the other molecules = f
- 6. A pure compound made of molecules = a
- 7. A pure compound made of ions = g
- 8. A mixture of 2 compounds = d





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- a. Melting
- b. Freezing
- c. Evaporation
- d. Condensation
- e. Sublimation

2. Correct spellings indicated

۵.	evaparation	<u>evaporation</u>	evapporation	evaporasion
b.	condensasion	condennsation	condensetion	<u>condensation</u>
c .	frezzing	frezing	freezing	freezin
d.	<u>melting</u>	meltting	mellting	meelting
e.	sublimmation	<u>sublimation</u>	sublemation	sublimetion

3. Correct words shown.

۵.	The ice cubes in my drink have disappeared	melting
b.	The mirror in the bathroom has misted up	condensation
с.	The cold night has left ice on the roads	freezing
d.	My ice cream has dripped down my shirt	melting
e.	There is steam coming off that hot water	evaporation
f.	My clothes are all dry now	evaporation

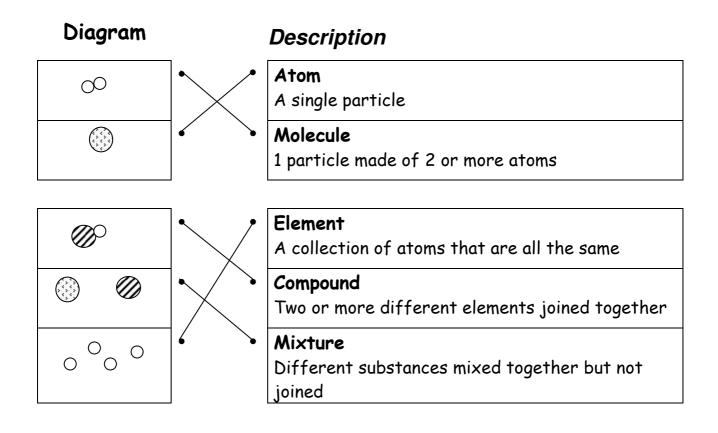
4. Do you need to add heat, or remove heat to make these things happen?

۵.	Freeze water to make ice	Remove heat		
b.	Melt an ice cream	Add heat		
с.	Boil some water	Add heat		
d.	Dry off some clothes	Add heat		
e.	Change a gas into a liquid	Remove heat		
f.	Change a liquid into a solid	Remove heat		
g.	Change a solid into a gas	Add heat		

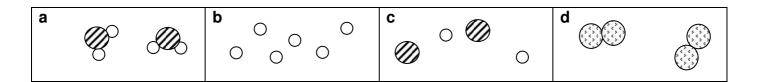




Α.



Β.



- 1. Atoms of an element **b**
- 2. Molecules of an element **d**
- 3. A mixture of 2 elements, both of which are made of atoms **c**
- 4. A pure compound made of molecules **a**