



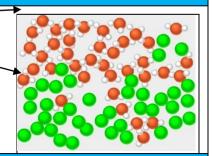


State	Solid	<u>Mixtures Knowledge Organiser</u>		
Diagram	********			
Arrangement of particles	Regular arrangement	Randomly arranged	Randomly arranged	
Movement of particles	Vibrate about a fixed position	Move around each other	Move quickly in all directions	
Closeness of particles	Very close	Close	Far apart	

when the particles in a sona spreadout in a nation.

We call the liquid the SOLVENT We call the solid the SOLUTE

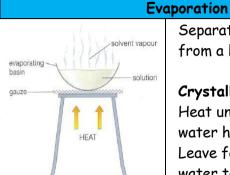
We call the mixture of the solid and the liquid a **SOLUTION**. A solid that will dissolve in a liquid is called SOLUBLE. A solid that will not dissolve in a liquid is called INSOLUBLE.



Filtrati	on
	5
liquid and insoluble solid	iı
filter paper	f
filter funnel filtered solld residue	7
filtered liquid – filtrate	a f h
Public	h

Separates an insoluble solid from a liquid.

The solid pieces are too big to fit through the holes in the filter paper.



Separating a soluble solid from a liquid.

## Crystallisation

Heat until almost all the water has evaporated. Leave for the remaining water to evaporate slowly to form crystals.

Vocabulary		
Pass into a solution.		
Change into a vapour.		
Remove by passing through a filter.		
A substance consisting of		
two or more substances		
mixed together.		
Incapable of being		
reversed into a different		
state.		
A tiny piece of anything.		
Capable of assuming or		
producing either of two		
states.		
Being the most		
concentrated solution		
possible at a given		
temperature; unable to		
dissolve still more of a		
substance.		
Force, take, or pull apart.		
Capable of being dissolved		
in some solvent.		
A mixture of two or more		
substances; frequently (but		
not necessarily) a liquid		
solution.		
A mixture in which fine		
particles are suspended in a		
fluid where they are		
supported by buoyancy.		







	Diules	Of Muller	
State	Solid	Liquid	Gas
Diagram	********		
Arrangement of particles	Regular arrangement	Randomly arranged	Randomly arranged
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Closeness of particles	Very close	Close	Far apart

## Changes Of State Evaporating or boiling Freezing Condensing Cas

Some changes can be reversed and the
material can be changes to its previous form.
An example of this is water into ice - it can
be melted and turn back to water again.

Reversible Changes

Other changes are irreversible which means they can't be 'undone'. Examples of this are cooking, baking, frying and burning materials. An example would be that you can fry an egg but you can't return it to a raw egg again.

Irreversible Changes





bubbles  A hollow globule of gas (e.g., air or carbon dioxide).  carbon dioxide  A heavy odourless
dioxide).
carbon dioxide A heavy adourless
,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
colourless gas formed
during respiration.
freeze Change from a liquid to
a solid when cold.
flammable Easily ignited.
fuel A substance that can
be consumed to
produce energy.
melt Reduce or cause to be
reduced from a solid to
a liquid state, usually
by heating.
irreversible Incapable of being
reversed into a
different state.
oxygen A colourless, odourless
tasteless, non-
flammable gas that we
breathe.
reaction A process in which one
or more substances are
changed into others.
reversible Capable of assuming or
producing either of
two states.
vapour A visible suspension in
the air of particles of
some substance.

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