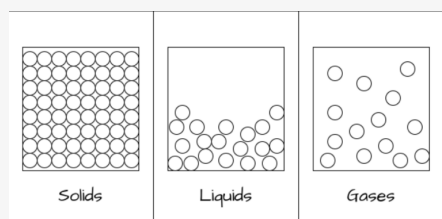


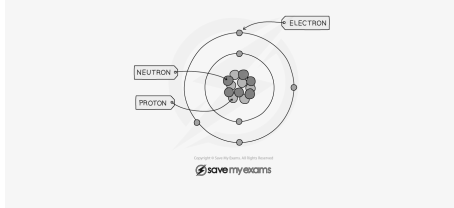
## States of Matter - characteristics of states

Characteristic	Solids	Liquids	Gases
Shape	Fixed	Variable	Variable
Volume	Fixed	Fixed	Variable
Compressibility	Not compressible	Very little	Compressible

## States of Matter - arrangement of particles



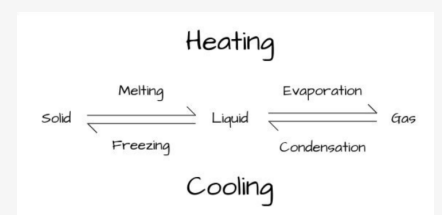
## Atomic structure



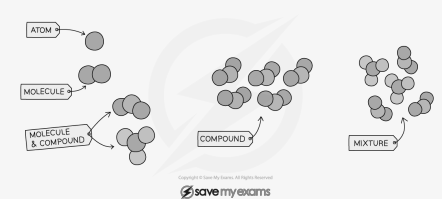
## Mixtures and Compounds

Mixtures	Compounds
Contains 2+ substances	Contains 1 substance
Variable composition	Fixed composition
Formation involves chemical change	Formation involves physical change
Properties of component elements	Properties differ from component elements
Easy separation by physical means	Can only be separated chemically

## States of Matter - changes in state



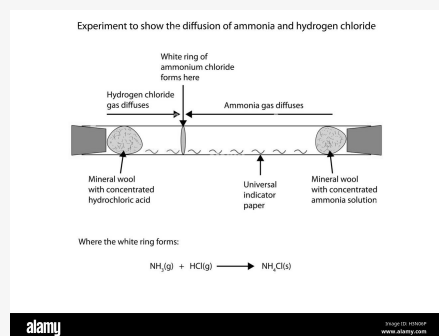
## Elements, compounds and mixtures



## Subatomic particles

Particle	Relative mass	Relative charge
Proton	1	+1
Neutron	1	0
Electron	0	-1

### Diffusion of NH<sub>3</sub> and HCl



HCl has a molecular mass of 36.5

NH<sub>3</sub> has a molecular mass of 17

Since the mass of NH<sub>3</sub> is less than that of HCl, NH<sub>3</sub> diffuses faster.



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