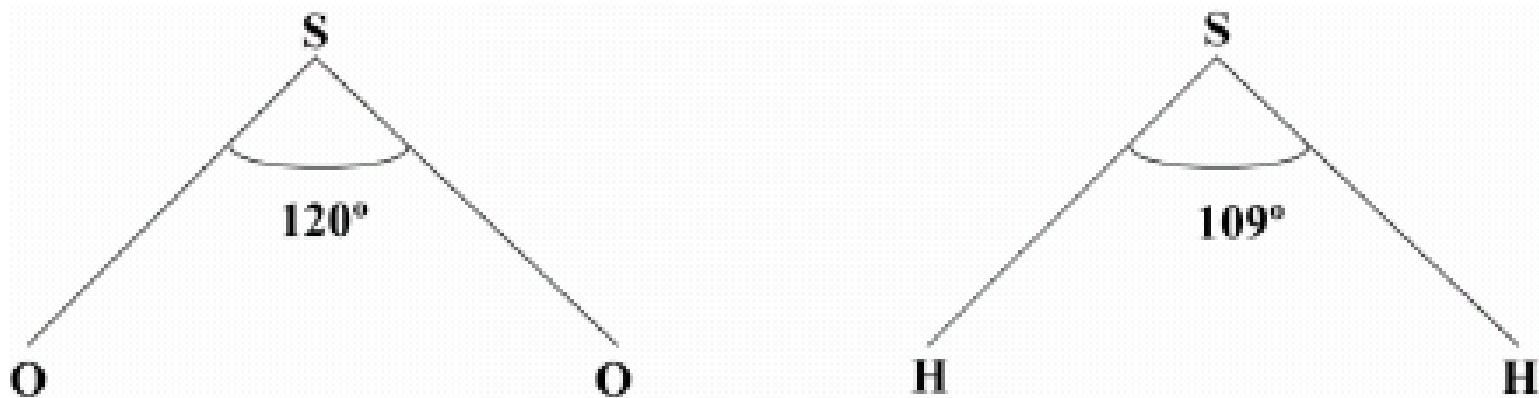
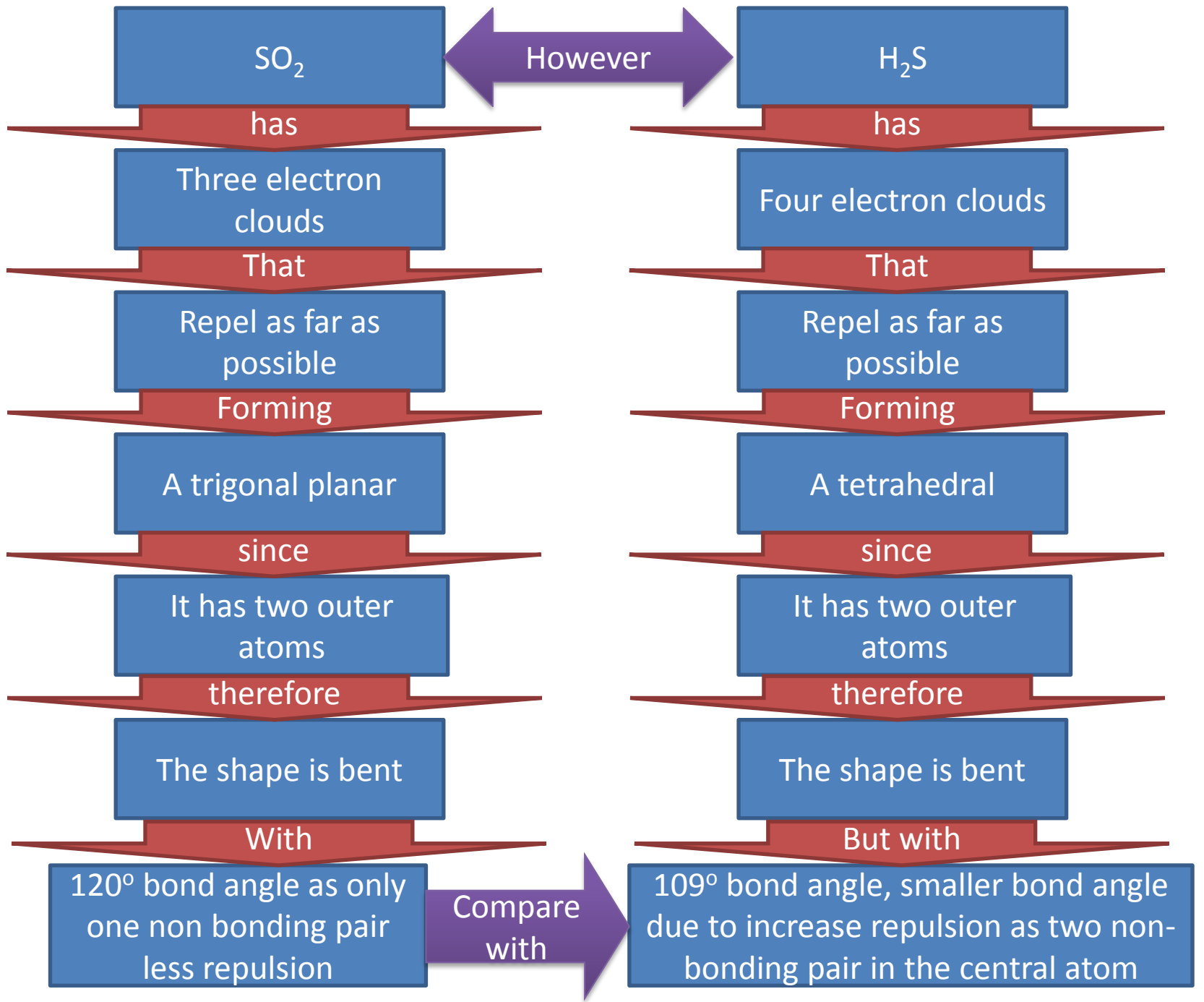


The shapes of two molecules SO_2 and H_2S are shown in the diagram below. The shape of both molecules is described as **bent**. Explain the different bond angles





Discuss why magnesium is
malleable

Practice paper

Mg

is

Metallic substance

Made out of

Cation ion in sea of electrons

Held together by

Electrostatic force

When stress apply

The cations moved in the solid structure

The

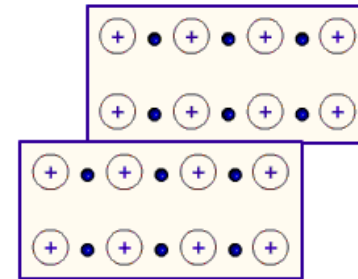
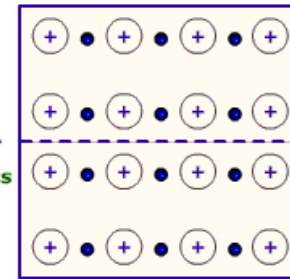
Attraction remains

As a result

malleable

illustrate

→
Stress



Discuss solubility of magnesium metal

Practice paper

Mg

is

Metallic substance

Made out of

Cation in sea of
electrons

Held together by

Electrostatic
attractions

Which is

Strong

and

Water cannot break
the solid apart

As a result

insoluble

Discuss the electro-conductivity of MgO

Practice paper

MgO

is

Ionic substance

Made out of

Cations and anions

To conduct

Needs moveable
charge particle

In this case

Ions cannot moved in
solid

but

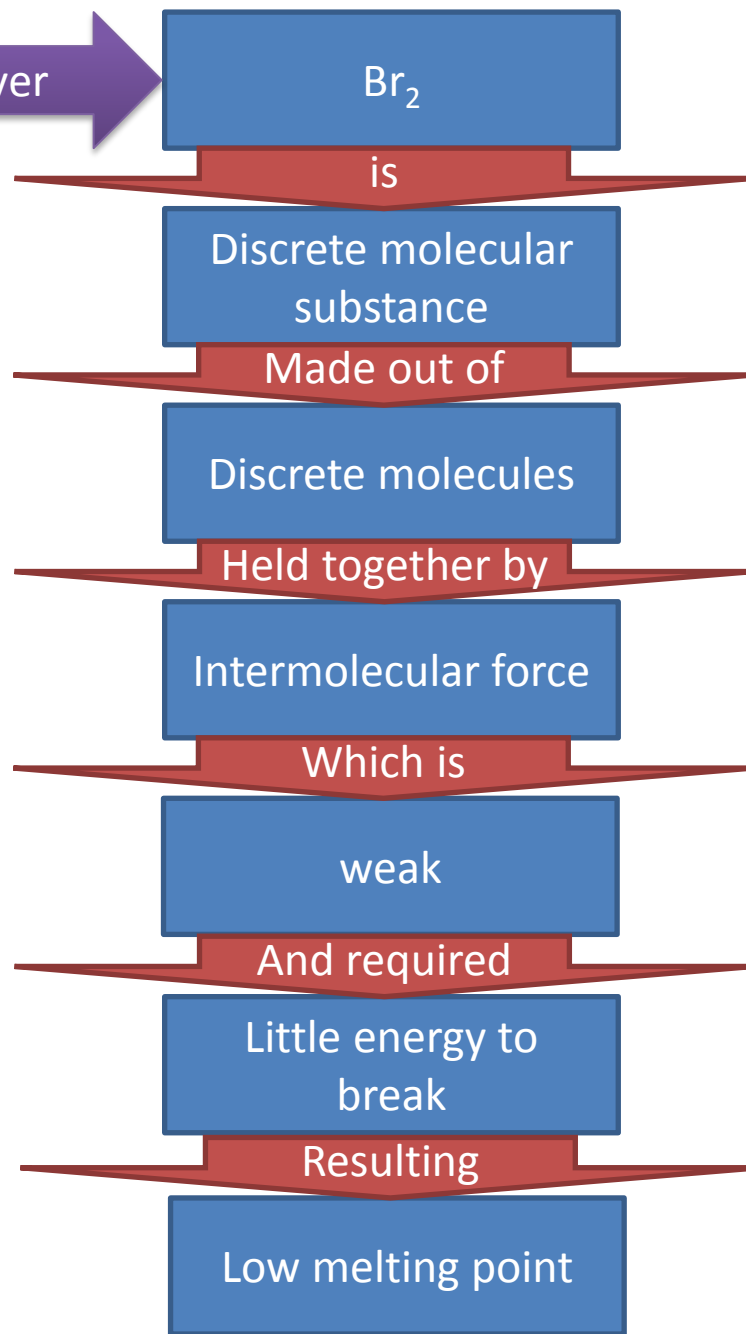
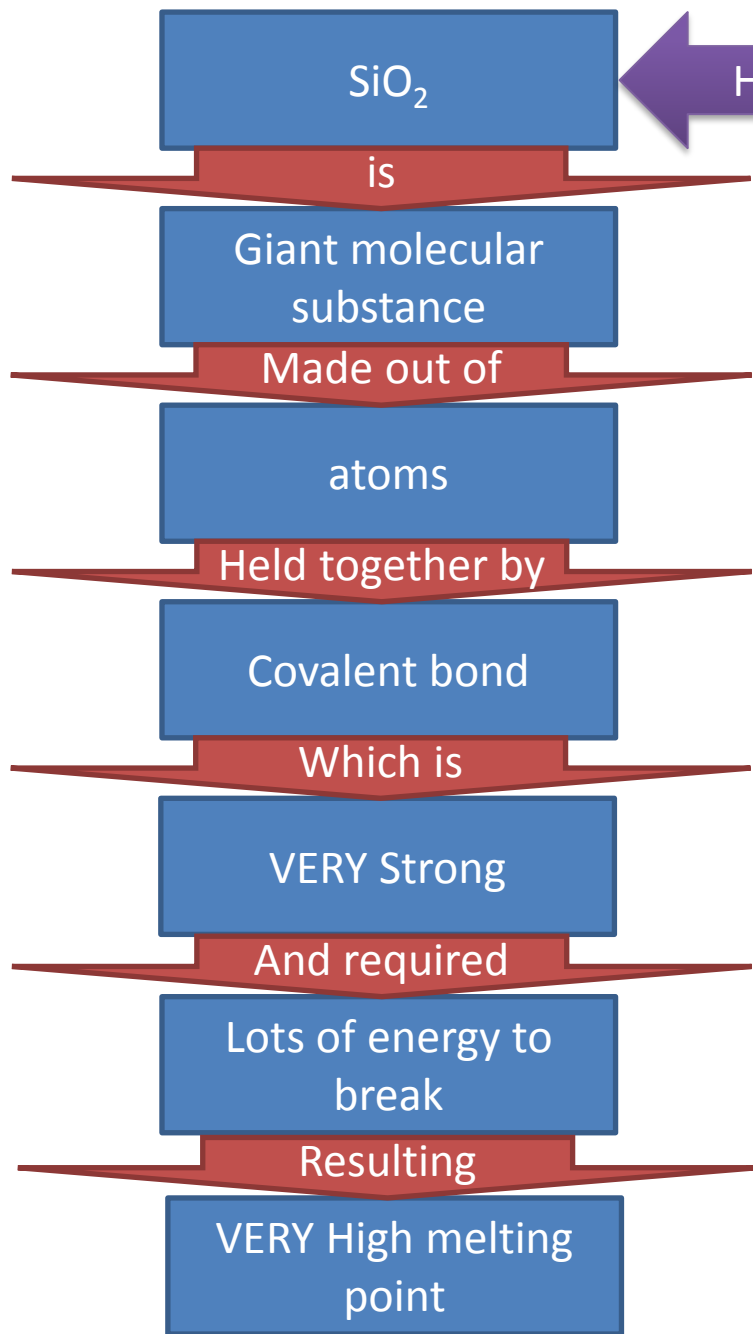
Ions are able move
when molten

Resulting

No conductivity in
solid but conduct
when molten

Discuss the difference in melting point between SiO_2 and Br_2

In the practice paper



SiO₂ and Br₂ Solubility in water

Practice paper



However



is

is

Giant molecular
substance

Discrete molecular
substance

Made out of

Made out of

atoms

Discrete molecules

Held together by

Held together by

Covalent bond

Intermolecular force

Which is

Which is

VERY Strong

weak

and

and

Water cannot break
the solid apart

Water can break the
solid apart

As a result

As a result

insoluble

soluble