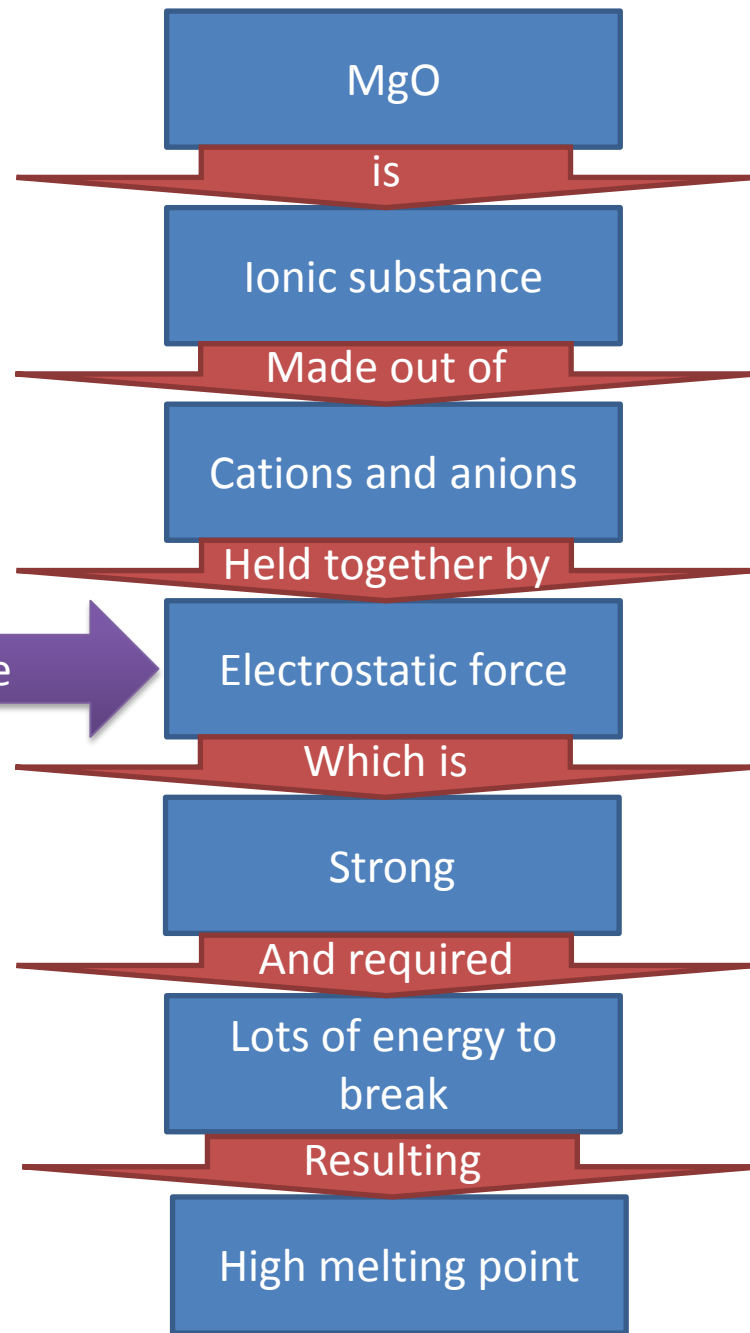
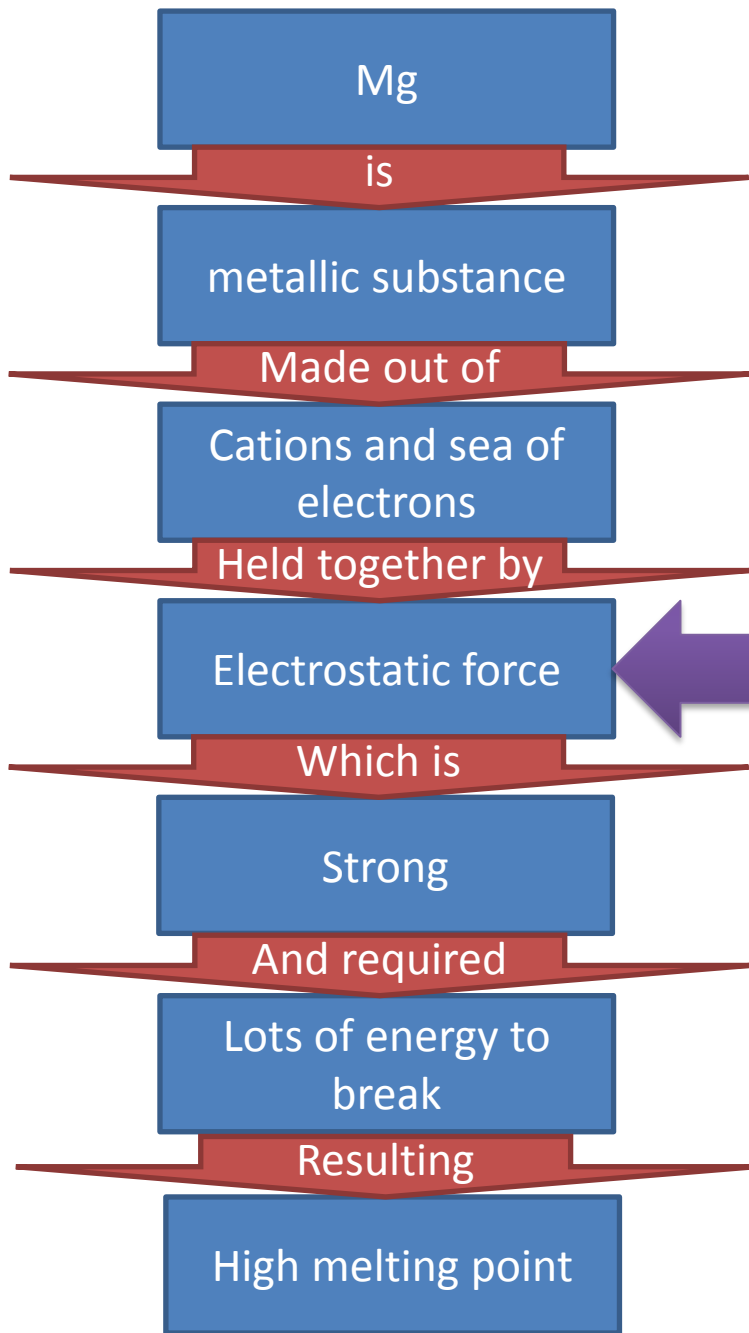


Structure your answer

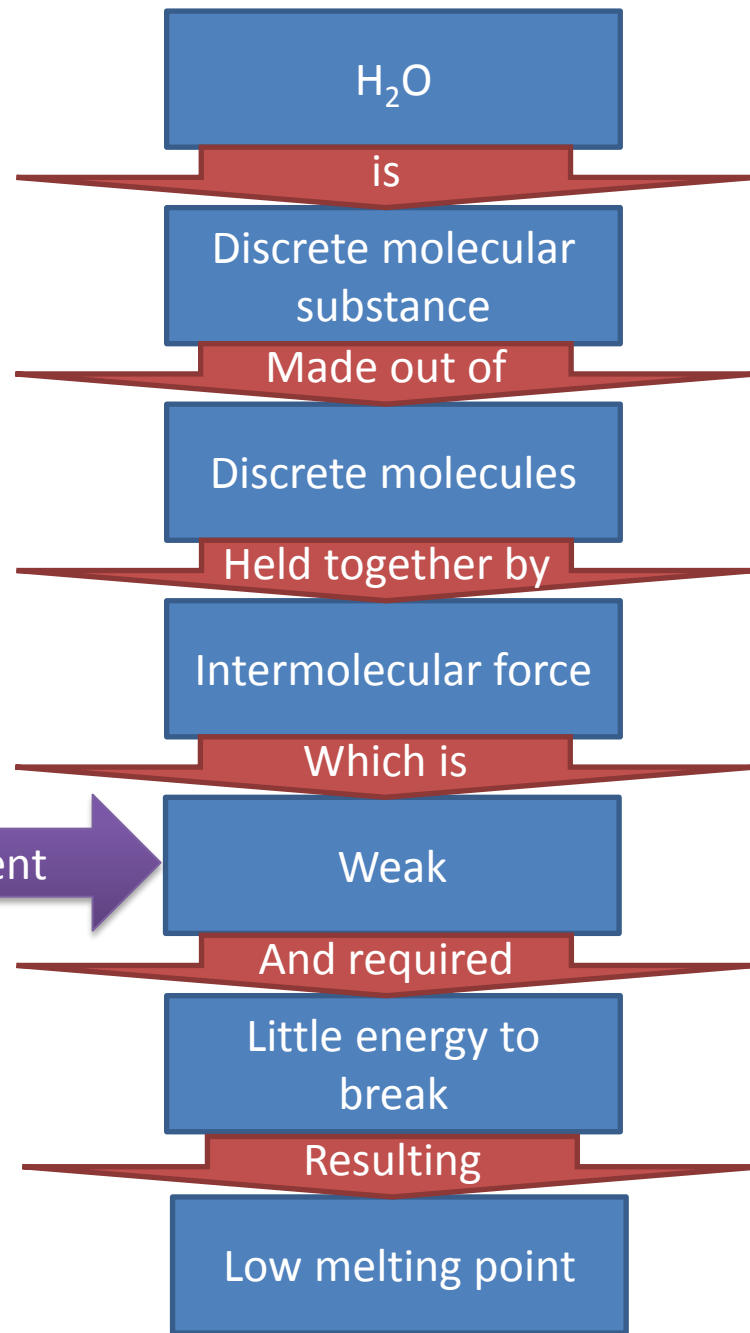
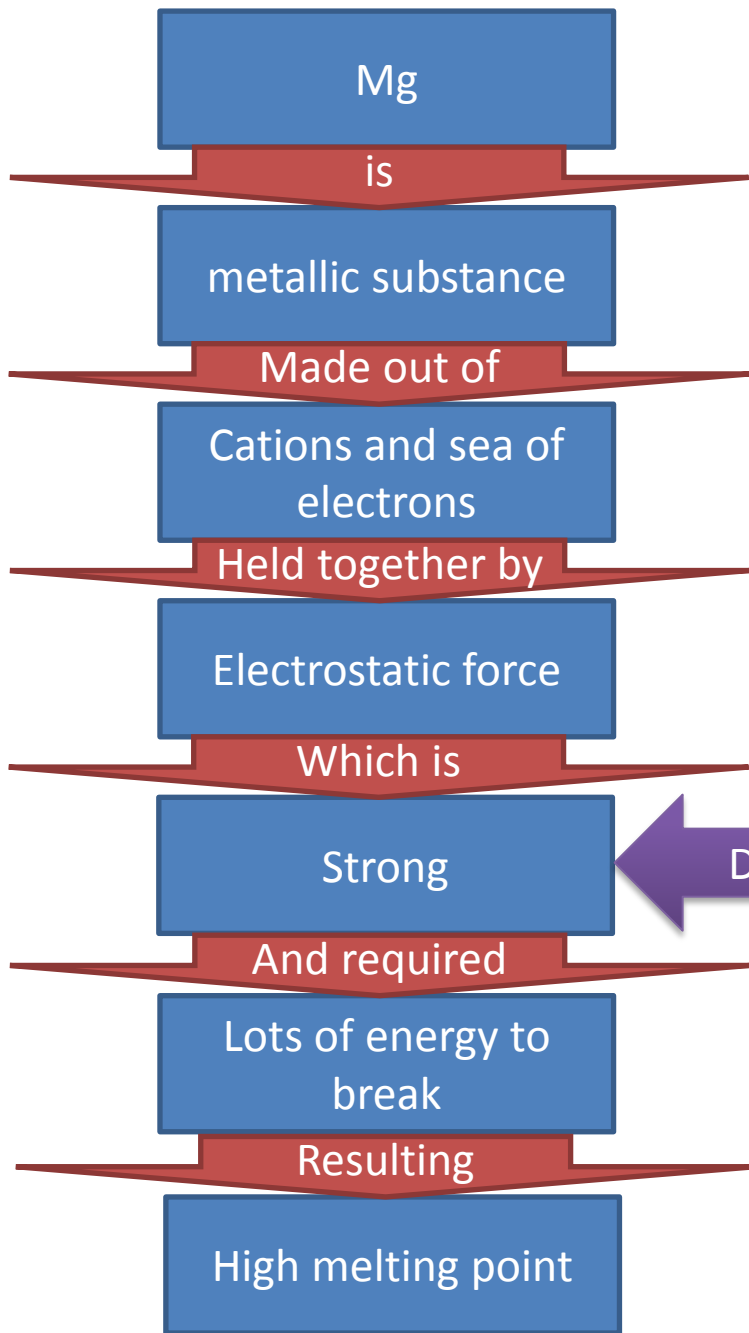
- Blue boxes = facts
 - Achieve
- Red arrows = Explanation links
 - Merit
- Purple arrows = Discussion links
 - Excellence

Why Mg and MgO both has high
mp?



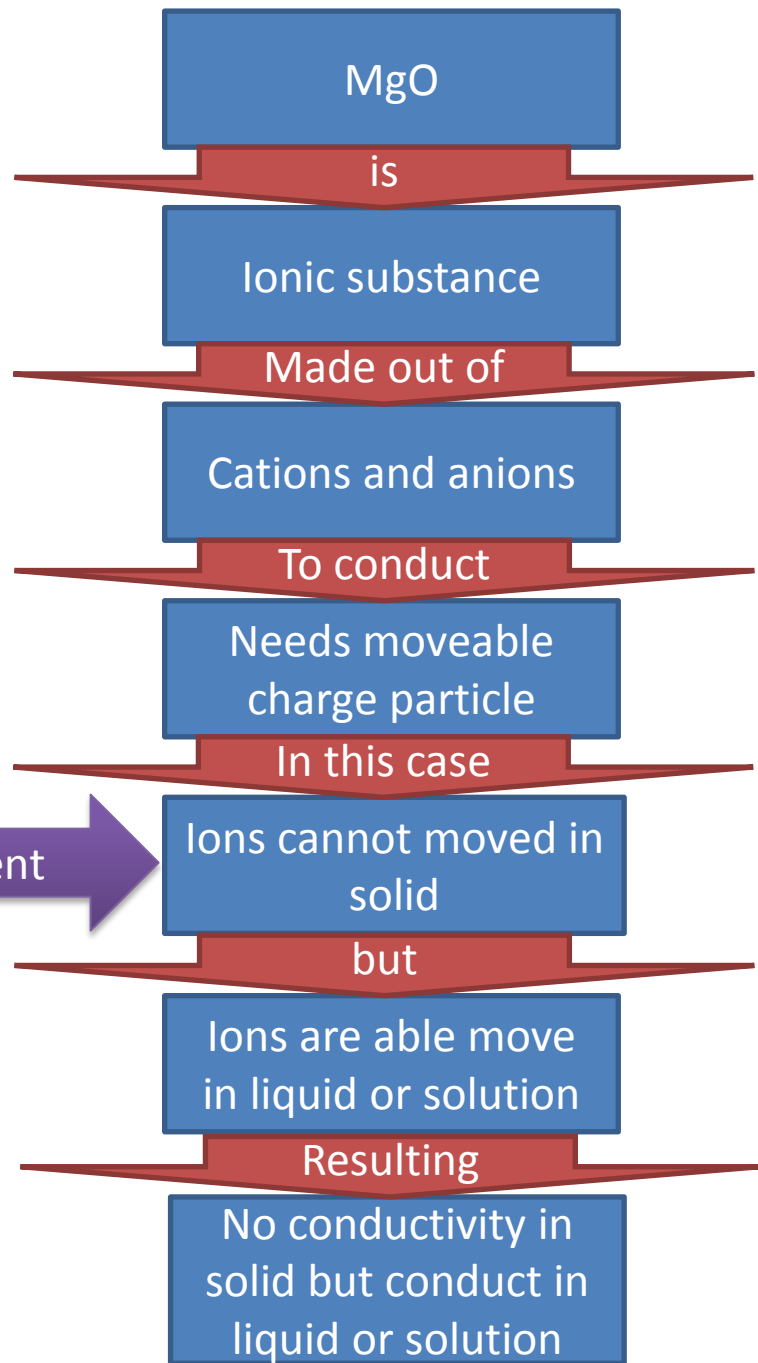
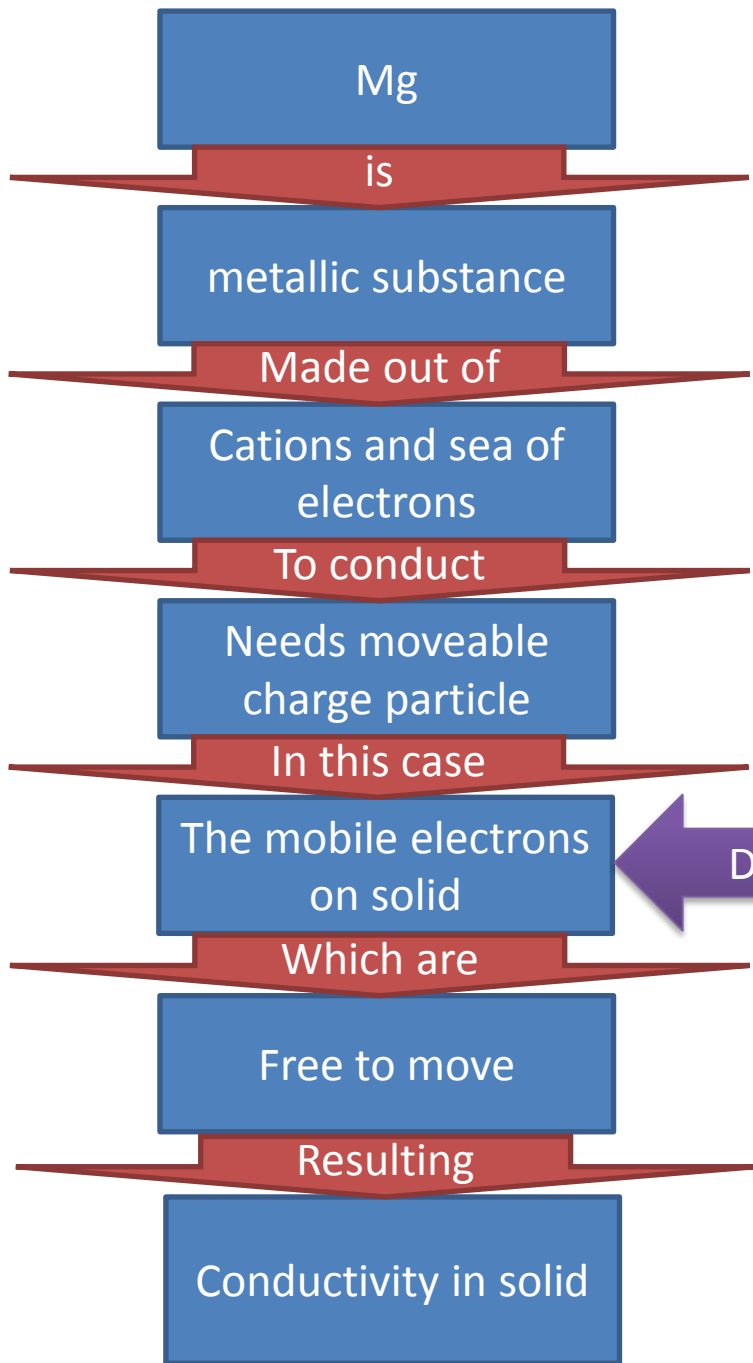
← Same →

Why water has a lower boiling points than Mg?



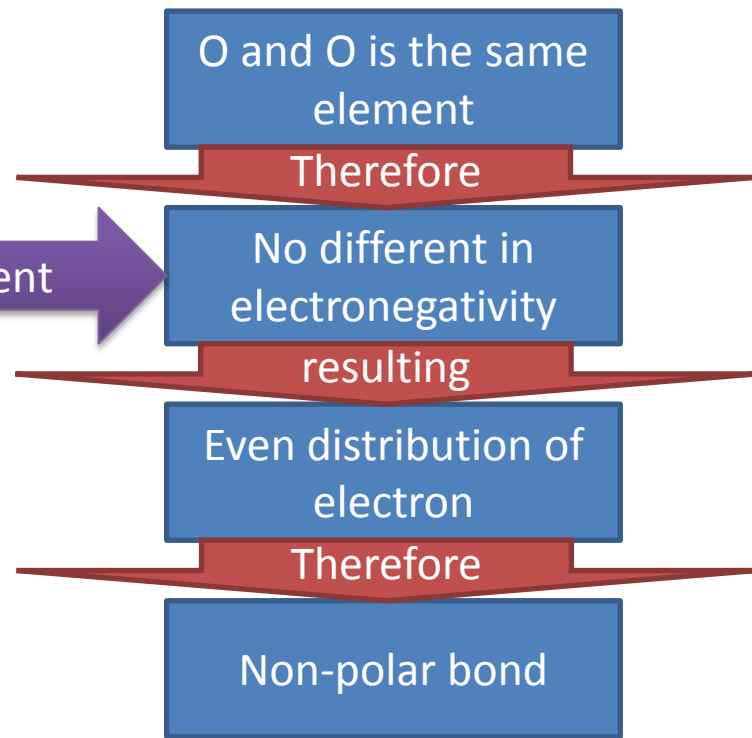
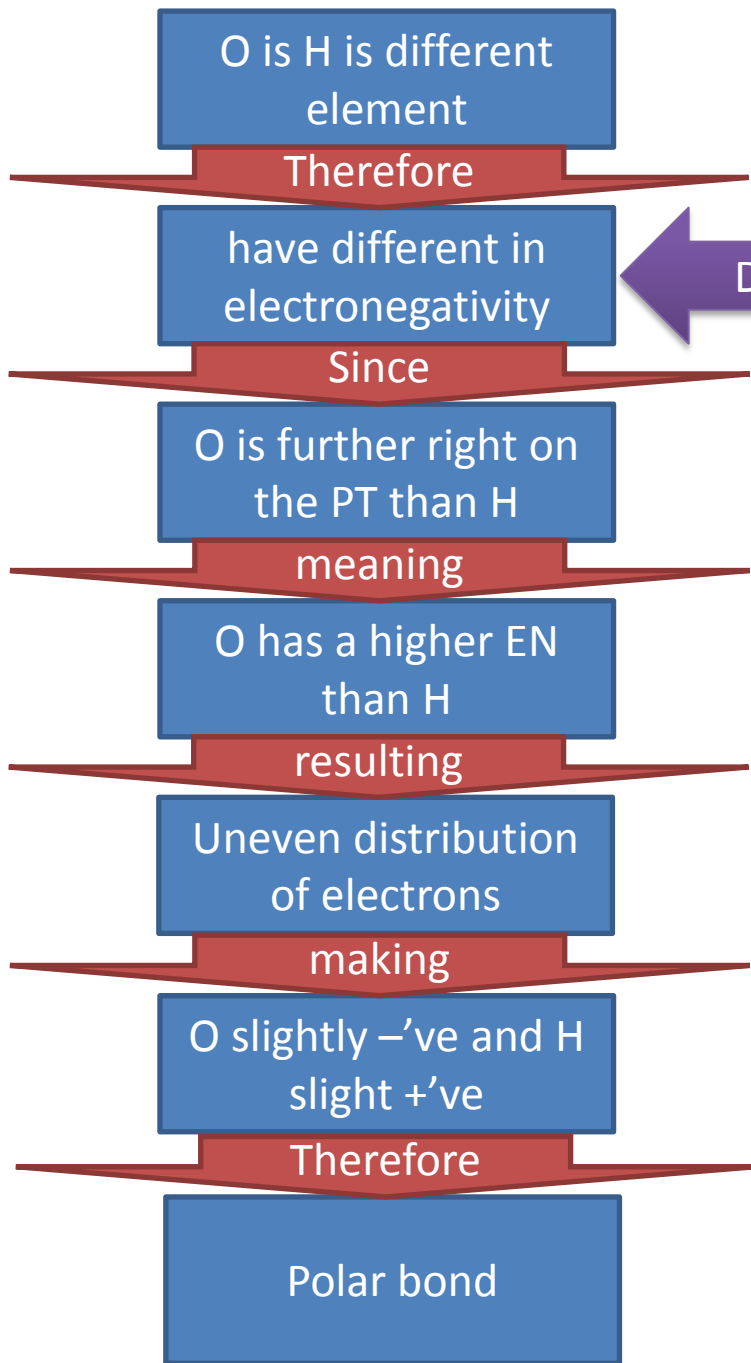
Different

Discuss the conductivity of Mg
and MgO

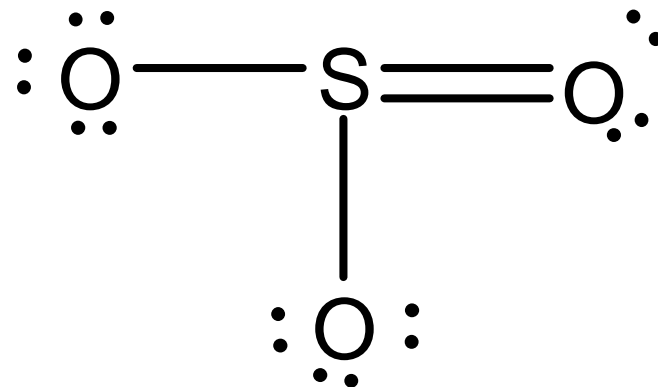
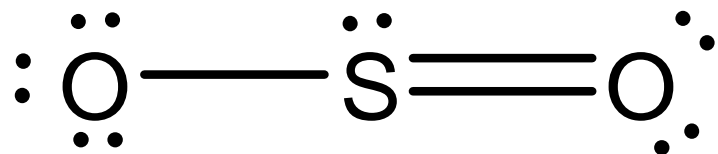


Different

Discuss the polarity of O-H and
O=O bond



Discuss the shape of SO_2 and SO_3



SO₂

has

Three electron clouds

that

Repel each other as far away as possible

forming

A trigonal planar shape

since

There only two other atoms

Therefore

The shape is Bent

with

Bond angle of 120°

SO₃

has

Three electron clouds

that

Repel each other as far away as possible

forming

A trigonal planar shape

since

There are three other atoms

Therefore

The shape is also trigonal planar

with

Bond angle of 120°

Different

Discuss the polarity of SO_2 and
 SO_3

SO₂

Has

Bent shape

That is

Not symmetrical

since

S and O has different
Electronegativity

Which means

It has polar bond

resulting

Overall dipole
moment

making

The molecule polar

SO₃

has

Trigonal planar

That is

symmetrical

Even tho

S and O has different
Electronegativity

Which means

It has polar bond

but

The dipole moment
cancelled out

making

The molecule non
polar

Different