## F321: Atoms, Bonds and Groups Structure & Bonding – Mark Scheme

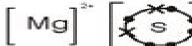
1. (i) (Electrostatic) attraction between oppositely charged ions -

IGNORE force
IGNORE references to transfer of electrons
MUST be tons, not particles

(ii) Mg shown with either 8 of 0 electrons

S shown with 8 electrons with 2 crosses and 6 dots (or vice versa) 🗸

Correct charges on both ions



Mark charges on tons and electrons independently

For first mark, if 6 electrons are shown around the Mg then

'extra electrons' around S must match the symbol chosen for

electrons around Mg Stell circles not reasured

IGNORE taner shell electrons

Brackets are not required

 (i) Electron pairs in covalent bonds shown correctly using dots and crosses in a molecule of the F<sub>2</sub>O

Lone pairs correct on O and both F atoms 🛩



Must be 'dot-and-cross' arcles for outer shells NOT needed IGNORE sneer shells

Non-bonding electrons of O do not need to be shown as pairs Non-bonding electrons of F do not need to be shown as pairs [27]

1

2

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