

Experiment worksheet answers

3.6 Non-metals combine to form covalent compounds

Pages 80–81 and 199

Challenge 3.6: Modelling covalent molecules

Discussion

- 1 What type of bond occurs between a metal and a non-metal?

Ionic bonding

- 2 What type of bond occurs between two non-metals?

Covalent bonding

- 3 What is a valency shell?

The outermost shell of an atom that contains electrons.

- 4 What is meant by the term 'sharing electrons' in covalent bonds?

The electrons spend time moving around the nuclei of both atoms.

Conclusion

What do you know about covalent bonds?

Covalent bonds involve the sharing of electrons between two non-metals.