

Map of the module: Elements of Life

This shows the relationship between the Chemical Storylines, the Activities and the Chemical Ideas. To aid planning, laboratory-based practical work is indicated by (P), activities involving IT skills are indicated by (IT) and those developing study skills by (S).

ACTIVITIES	CHEMICAL STORYLINE	CHEMICAL IDEAS
EL1.1 How do we know about atoms? (IT)* EL1.2 How much iron is in a sample of an iron compound? (P) EL1.3 Investigating visible emission spectra (P) (IT) EL1.4 Simulating radioactive decay	EL1 WHERE DO THE CHEMICAL ELEMENTS COME FROM?	2.1 A simple model of the atom* 2.2 Nuclear reactions (section on fission and fusion)* 6.1 Light and electrons 2.3 Electronic structure: shells 2.2 Nuclear reactions (section on half-life)*
EL2.1 Why do atoms form ions? EL2.2 Shapes of molecules Part 1: Balloon molecules Part 2: Shapes and bond angles EL2.3 What type of properties do different structures have? EL2.4 Check your knowledge and understanding (Part 1) (S)	EL2 THE MOLECULES OF LIFE	3.1 Chemical bonding (sections on bond polarity and electronegativity) The shapes of molecules 3.2
EL1.1 How do we know about atoms? (IT)* EL3 Making and analysing Epsom salts (P)	EL3 WHAT ARE WE MADE OF?	2.1 A simple model of the atom* 2.2 Nuclear reactions* 1.1 Amount of substance
EL4.1 Investigating the chemistry of Group 2 elements (P) EL4.2 Isotopic abundance and relative atomic mass EL4.3 Patterns in the physical properties of elements (IT)	EL4 LOOKING FOR PATTERNS IN ELEMENTS	1.2 Balancing equations 11.2 The s block: Groups 1 and 2 6.5 Mass spectrometry 11.1 Periodicity
EL5 Check your knowledge and understanding (Part 2) (S)	EL5 SUMMARY	

* If **EL** is being taught by one teacher, **Chemical Ideas 2.1** and **2.2** do not need to be revisited as part of **EL3**, as they will have been covered during **EL1**. If **EL** is being taught in two separate halves by two teachers working in parallel (see notes on 'Teaching AS with two teachers' in the 'About the course' section) then sections **EL1** and **EL2** form one half and sections **EL3** to **EL5** the second. In this case **Chemical Ideas 2.1** and the associated activity (**EL1.1**) can be taught by either teacher, as can **Chemical Ideas 2.2**.