



Student Cycle Overview

***Excellence.
No Excuses.***

The subject content for this achievement cycle is shown below.

At the end of the achievement cycle there will be an **assessment** of this material.

You should keep an organised file of notes to help you revise and prepare.

| Achievement Cycle 1 | Science | Year 10 | Tiers 1/2/3 |
|----------------------------|---|----------------|--------------------|
| Code | Description | | Revised? |
| S10.1.1 | Structure of the atom | | |
| S10.1.2 | Mass number, atomic number and isotopes/RAM | | |
| S10.1.3 | Relative electrical charges of subatomic particles | | |
| S10.1.4 | Electronic structure | | |
| S10.1.5 | The Periodic Table | | |
| S10.1.6 | The development of the model of the atom | | |
| S10.1.7 | Transition Metals | | |
| S10.1.8 | Radioactive decay and nuclear radiation | | |
| S10.1.9 | Nuclear equations | | |
| S10.1.10 | Half-lives and the random nature of radioactive decay | | |
| S10.1.11 | Radioactive contamination | | |
| S10.1.12 | Background radiation | | |
| S10.1.13 | Uses of nuclear radiation | | |
| S10.1.14 | Nuclear Fission | | |
| S10.1.15 | Nuclear fusion | | |



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| Achievement Cycle 1 | Science | Year 10 | Tiers 1/2/3 |
|----------------------------|--|----------------|--------------------|
| Code | Description | | Revised? |
| S10.1.17 | Light Microscopes | | |
| S10.1.18 | Electron Microscopes | | |
| S10.1.20 | Eukaryotic & Prokaryotic Cell Structures | | |
| S10.1.21 | Cell Specialisation & Differentiation | | |
| S10.1.22 | Culturing microorganisms | | |
| S10.1.23 | Chromosomes, mitosis and the cell cycle | | |
| S10.1.24 | Stem cells | | |
| S10.1.25 | Diffusion | | |
| S10.1.26 | Osmosis | | |
| S10.1.27 | Active transport | | |



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| Achievement Cycle 1 | Science | Year 10 | Tiers 4/5 |
|----------------------------|---|----------------|------------------|
| Code | Description | | Revised? |
| S10.1.1 | Structure of the atom | | |
| S10.1.2 | Mass number, atomic number and isotopes/RAM | | |
| S10.1.3 | Relative electrical charges of subatomic particles | | |
| S10.1.4 | Electronic structure | | |
| S10.1.5 | The Periodic Table | | |
| S10.1.6 | The development of the model of the atom | | |
| S10.1.8 | Radioactive decay and nuclear radiation | | |
| S10.1.9 | Nuclear equations | | |
| S10.1.10 | Half-lives and the random nature of radioactive decay | | |
| S10.1.17 | Light Microscopes | | |
| S10.1.18 | Electron Microscopes | | |
| S10.1.20 | Eukaryotic & Prokaryotic Cell Structures | | |
| S10.1.21 | Cell Specialisation & Differentiation | | |
| S10.1.22 | Culturing microorganisms | | |
| S10.1.23 | Chromosomes, mitosis and the cell cycle | | |
| S10.1.24 | Stem cells | | |
| S10.1.25 | Diffusion | | |
| S10.1.26 | Osmosis | | |
| S10.1.27 | Active transport | | |