

**Subject: Science**

**Year group: 7**

## **Curriculum Map**

### **Autumn Term (Sep-Dec)**

All students will begin by studying an introduction unit that looks at safety and core skills in Science.

Three topic areas are then taught in rotation with different groups being taught in different order.

- 1) Living Systems (Biology) – students will study plant and animal cells, the use of microscopes, diffusion, unicellular organisms, and cell organisation
- 2) Particles (Chemistry) – students will study how particles are organised into three states of matter their properties and the separation of mixtures.
- 3) Forces and Motion (Physics) – students will study forces, speed, gravity and friction.

### **Spring Term (Jan-Mar)**

Three topic will be taught in rotation with different groups being taught in different order.

- 1) Diet and Health (Biology) – students will study the organs of the digestive system, enzymes, food groups, malnutrition, energy requirements, and drugs.
- 2) Atoms, Elements and Compounds (Chemistry) – students will study physical and chemical changes, the difference between elements compounds and mixtures and how to identify if a chemical reaction has happened.
- 3) Levers, Moments, and Pressure (Physics) – students will study levers, pressure in solids/liquids/gases, and how to calculate pressure and moments

### **Summer (Apr-July)**

Three topic will be taught in rotation with different groups being taught in different order.

- 1) Genetics and Evolution (Biology) – students will study how features are inherited, natural selection, selective breeding and genetic modification.
- 2) Chemical Reactions (Chemical) – students will study different types of chemical reactions including exothermic and endothermic reactions and displacement reactions.
- 3) Electricity and Magnetism (Physics) – students will study static electricity, electrical circuits, magnets and electromagnets.

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#### **Useful Websites and Resources:**

BBC Bitesize Key stage 3 Science - <http://www.bbc.co.uk/education/subjects/zng4d2p>

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