Inspire, Believe, Support, Achieve

Year 7 SCIENCE

Curriculum intent: Students become scientists. Students are curious about the world around them, question what they learn and develop their logical, analytical and investigative skills, appropriate for the world of work.

CONTENT / KNOWLEDGE:

- Becoming Scientists: Students learn key practical skills, how to manage safety in the laboratory.
- Biology: Cells and the wonder of microscopes; Reproduction in plants and animals; Genetics and Evolution (how our ancestors are still influencing us now and how we might develop in the future).
- Chemistry: Particles, atoms, elements and compounds and an introduction to the amazing periodic table; Acids and Alkalis also provide opportunity for practical work and learning about chemicals in the home and around them; Separating Techniques (different methods for separating mixtures).
- Physics: Energy, different forms of energy and how we can manage our growing energy demands. Waves, which introduces many new ideas for students to experiment with; Electricity, to introduce students to basic electronic engineering ideas and applications.

SKILLS:

- How to handle laboratory equipment, resources and chemicals safely and responsibly.
- How to plan, carry out, analyse and evaluate a practical investigation.
- Naming elements and compounds and starting to use symbols and formula as part of students' scientific vocabulary.
- Spotting patterns and making predictions based on prior knowledge and understanding.