Science at our school is built on curiosity, enjoyment, and discovery. We want students to see Science as exciting, relevant, and connected to the world around them. Through practical work, experiments, and problem solving, students explore scientific ideas while developing the knowledge and confidence needed for GCSE and beyond. Our aim is for students to enjoy learning, ask questions, and understand how Science helps explain everyday life.

## Intent

Our Science curriculum aims to combine engagement with academic challenge. Lessons are designed to capture students' interest while building strong scientific knowledge and understanding. Practical work is included where it deepens learning and helps students connect theory to real-life examples.

Knowledge is carefully sequenced so students can build on secure foundations as they progress through the curriculum. Subject-specific vocabulary is explicitly taught and revisited so that students can communicate scientific ideas clearly and confidently. We want all students to see Science as a subject they can enjoy, succeed in, and feel proud of.

## Implementation

The Science curriculum is carefully sequenced from Key Stage 3 to Key Stage 4. Students begin in Year 7 with broader topics that build strong foundations before moving towards more detailed and abstract concepts as their understanding develops.

For example, in Biology students move from ecosystems and variation to organs and systems, and then to the cells that make up living organisms. In Chemistry, students begin with particles and states of matter before progressing to atomic structure and chemical processes. This structure supports students in moving from familiar ideas to more complex scientific thinking.

In Year 9, students follow a bridging curriculum that completes Key Stage 3 content while introducing elements of GCSE subject knowledge. This reduces repetition and prepares students for the demands of GCSE study.

Assessment is built into the curriculum through Knowledge Checks at the end of each topic. Teachers provide clear feedback so students can reflect on their work and make improvements.

Homework also supports learning. Students complete one hour of Sparx Science each week, helping to reinforce lesson content and develop independent study habits.

## Impact

The success of the curriculum is seen in students' progress, confidence, and engagement in Science lessons. Students develop secure knowledge, practical skills, and the ability to explain scientific ideas clearly.

Science also introduces students to a wide range of future careers, including medicine, engineering, environmental science, and technology. By highlighting real-world applications and STEM role models, we aim to raise aspirations and help students see the opportunities that Science can offer.

Overall, our curriculum provides a coherent, challenging, and enjoyable journey through Science, preparing students for both examination success and future opportunities.