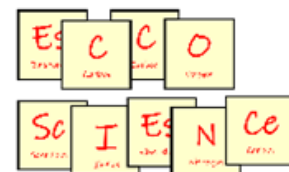


Science Curriculum Intent



INTENT

Science at Ecclesfield is all about developing curiosity and understanding the world around us. We want every student to enjoy learning Science, to have the confidence to ask big questions, the resilience to work things out, and the ability to see how what they learn connects to real life.

Through our Science curriculum, students will:

- **Build strong knowledge** in Biology, Chemistry, and Physics so they can understand how living things, materials, and forces work.
- **Think and work like scientists** by investigating problems, carrying out experiments, and using evidence to explain ideas.
- **See the bigger picture** by exploring how Science shapes our daily lives and the wider world, from medicine and the environment to space and technology.
- **Be inspired for the future** by learning about different careers and opportunities that Science can open up.

Our aim is for students to leave school with not only great exam results but also the skills and confidence to make informed choices, solve problems, and play their part in an ever-changing scientific world.

IMPLEMENTATION

KS3

- Explore key concepts in Biology, Chemistry, and Physics.
- Learn how to conduct practical experiments safely and accurately.
- Ask questions, test ideas, and develop your scientific vocabulary.

KS4

- Build on the key concepts from KS3 to study Biology, Chemistry, and Physics in greater depth.
- Develop scientific skills further, improving your ability to plan and carry out investigations independently.
- Practice exam skills, problem-solving, and extended writing.
- Connect science to real-world issues such as health, climate, and technology.
- Gain the confidence and skills needed to pursue scientific pathways post-16

*Please see curriculum overviews for a more detailed breakdown of topics.