



Science KS3 Intent

1. **Engagement**

The aim of the KS3 Science curriculum at Queensbridge is for pupils to harbour a love of the subject through engaging, exciting and relevant learning. With so much to offer at our fingertips, we hope to capture student attention and interest from their very first lesson and embed a passion for the subject, supporting committed and confident learning prior to entering Key Stage 4.

2. **Key stage 3:**

The year 7 scheme of work has been created with a set of key skills at the centre. Throughout students will develop a variety of skills such as how to complete practicals safely, following and writing methods, chemical analysis and using scientific formulas. The skills are also embedded within each assessment and carried through into year 8 to ensure that students are competent and confident scientists by the end of the year and facilitate success at Key Stage 4.

3. **Literacy:**

By the end of key stage 3 students will have a high level of competency in literacy having written a variety of scientific methods and reports. They will have also been introduced to key vocabulary and have developed their mathematical literacy through tasks such as data analysis, producing graphs and sampling populations.

Year 7

Content:

- Cycle 1: cooking with chemistry
- Cycle 2: Astronomy
- Cycle 3: CSI
- Cycle 4: Jungle adventurers

Methodology:

Pupils will become immersed in the world of Science through four engaging themes – cooking with chemistry, CSI, astronomy and jungle adventurers. The aim of this year is to introduce students to fundamental Scientific concepts and processes whilst also ensuring they are excited by the subject.

KS4 Skills:

Throughout each theme students will develop a skill set which will support successful learning throughout both key stages. These will include:

- Practical
- Data analysis
- Creative thinking and modelling
- Problem solving
- Written presentation

Year 8

Content:

- Cycle 1: 7 Billion
- Cycle 2: End of the World
- Cycle 3: The Science of Art
- Cycle 4: Commonwealth Games

Methodology:

Pupils will build upon concepts introduced in year 7, providing a more detailed understanding in each Science discipline. Their immersion continues with new engaging themes 7 Billion, End of the World, The Science of Art and Commonwealth Games. Skills will be looked at in more depth and there will be an increased expectation placed on retention of key facts and ideas.

KS4 Skills:

Throughout each theme students will develop a skill set which will support successful learning throughout both key stages. These will include:

- Practical
- Mathematical – using formulae
- Analysis
- Evaluation