The Science Department Pillars of Curriculum Intent

In order to develop students that can SHINE brightly in Science we will:

Develop disciplinary literacy Use effective feedback

Develop scientific numeracy

Undertake effective practical work

Embed the scientific method

Develop selfdirected learners

- Investigate links between words and their composite parts
- Use activities to engage students with developing use of key scientific terminology
- Carefully select the vocabulary to teach and focus on
- Challenge misconceptions in language: everyday versus scientific
- Encourage students to verbalise their thought processes

- Use feedback to investigate knowledge and understanding
- Provide feedback regularly and on specific pieces of work
- Provide feedback as comments and provide meaningful opportunities to respond to feedback

- Teach numeracy skills in line with methods taught in mathematics
- Enable critical evaluation and analysis of data
- Ensure students understand the purpose of practical activities
- Ensure practical work develops scientific reasoning
- Enable students to confidently carry out practical work when following a written method
- Develop expertise in planning and effectively executing practical work

Model the stages of the method

- Making a prediction
- Developing methods to test hypotheses
- Successfully collecting data
- Making a structured formal analysis
- Testing a hypothesis
- Comparing predictions against observations
- Critically analysing data

- Plan
 opportunities for
 students to
 become more
 independent
 learners as they
 progress through
 science
- Plan to contextualise student learning through authentic learning experiences and wider curriculum experiences
- Teach revision skills and provide direction to develop personal resources