



Subject: Science

Lead Teacher: Dr Catalan (Head of Faculty)

Year: 8

Curriculum organisation

Students are taught in mixed teaching groups of 28 students for three lessons per week. Most classes have subject specialists delivering each science separately.

What topics will your daughter be studying this year?**Biology**

- Digestion
- Respiration
- Photosynthesis
- Microbes

Chemistry

- Chemical Energy
- Elements
- Periodic Table
- Types of reaction

Physics

- Light
- Heat
- Space

How will your daughter be learning?

- Whole class discussion
- Pair work
- Practical activities
- Problem-solving tasks

The course continues to build upon existing skills and knowledge and provides further opportunities for pupils to develop their confidence in carrying out scientific investigations. In Year 7 they will have met the essential parts of investigative work with a good deal of structure and support. Now in Year 8 students will be expected to develop their own ideas under guidance and be encouraged to test a hypothesis and evaluate to what extent their findings support their predictions. There will be occasion for an extended piece of work in this area as well as through the coverage of the following topic areas.

Students have the opportunity to engage in a wide range of practical activities to apply their knowledge and continue with the development of analytical skills. Many of these topics are suitable for furthering research and presentation skills. Some also engender discussion as to the extent Science and Technology play in our lives together with the very obvious advantages and the disadvantages. This allows the student the opportunity to reflect on the wider issues concerning Science. Many of these wider skills are cross-Science skills and come under the 'How Science Works' element of the curriculum.

Equipment needed for lessons

- Standard school stationery
- Exercise book
- Calculator

What can you do to support your daughter?

- Take an active interest in her learning

How will learning be assessed and progress measured?

- End of unit tests
- Peer and self assessment
- Homework tasks

Extension & Enrichment opportunities

- Salters Chemistry Competition
- Science Club
- Trips & Visits

If you have any questions about this Learning Overview, please contact the named Teacher above.