



Subject: Science

Lead Teacher: Dr Catalan (Head of Faculty)

Year: 7

Curriculum organisation

Students are taught in mixed groups of 28 for three lessons per week. Most classes are taught all three sciences by the same teacher to build continuity and support transition.

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

- Life and cells
- Reproduction
- Microbes
- Ecology

Chemistry

- Working in a laboratory
- Nature of matter, the atom and periodic table
- Particles and Solutions
- pH and reactions of acids

Physics

- Electricity
- Magnetism
- Forces

How will your daughter be learning?

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

In year 7 we lay the foundations for the three main sciences. We aim to not only expand their knowledge and understanding but also instil excitement and curiosity towards the natural world and the processes that surround us. We aim to foster their research and observational skills as well as build and develop their thinking and reasoning skills. Thus there will be ample opportunities to experience the evidence-based character of science through numerous class experiments and demonstrations. They will also attain an insight into its theoretical side via problem solving through the language of mathematics and logic. We aim to deliver a slightly expanded syllabus which will allow us to show how ideas fit together and how scientific principles come into play in a multitude of ways in their lives.

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
- Encourage persistent and proactive learning

How will learning be assessed and progress measured?

- End of unit tests (subject knowledge focus)
- Peer and self assessment
- Homework tasks.

Extension & Enrichment opportunities

- Science Club
- Trips & Visits (e.g. Techniquest/Jodrell Bank in Curriculum Enrichment Week)

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