

Year 7 Science

'Inspiring scientific curiosity, empowering informed thinkers.'

Biology

What will I study?

In Year 7 Biology, you will learn about cells and how living things are organised, from cells to tissues and organs. You will study the digestive, respiratory and reproductive systems, learn how microbes can affect health, and explore ecosystems, food chains and the impact humans have on the environment.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Written task
- Cumulative assessment

Chemistry

What will I study?

In Year 7 Chemistry, you will begin by learning how to work safely in a laboratory. You will investigate states of matter, atoms, elements, compounds and mixtures, and discover how substances can be separated. Later, you will explore chemical reactions, acids and alkalis, and learn how scientists use particle models to explain the behaviour of materials.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Cumulative assessment

Physics

What will I study?

In Year 7 Physics, you will learn about forces and motion, including speed and how forces affect movement. You will study the Earth and space, exploring planets, stars and gravity, and investigate electricity by building circuits and learning how energy is generated and transferred.

How will I be assessed?

- Low stakes recall quizzing
- Written task
- End of topic reviews
- Cumulative assessment

Quality of Education: Curriculum is planned and sequenced so that new knowledge and skills build on what has been taught before and leads towards a clearly defined end points.

Vision: The Science department has a vision to provide a broad curriculum that covers the knowledge, specialist practical skills and scientific literacy that will empower and impassion pupils to engage responsibly with the community and the world around them with in an informed and evaluative way.

Within Science: We provide a challenging curriculum that ensures that students experience Science in a practical way, through experiments, and using demonstrations/ models.

Year 8 Science

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Biology

What will I study?

In Year 8 Biology, you will build on your understanding of cells and organs by studying digestion, respiration and photosynthesis. You will learn how living things obtain and use energy, how materials move through organisms, and how ecosystems work. You will also investigate specialised cells and the adaptations that help organisms survive.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Cumulative assessment

Chemistry

What will I study?

In Year 8 Chemistry, you will explore acids and neutralisation, metal reactivity and chemical reactions. You will learn about atoms, the structure of the periodic table and different types of bonding. Along the way, you will develop practical skills and use scientific models to explain why substances behave the way they do.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Written task
- Cumulative assessment

Physics

What will I study?

In Year 8 Physics, you will study energy transfers, heating and efficiency, as well as electricity and electrical power. You will learn about forces, motion and moments, and investigate waves, including sound and ultrasound. You will also explore space and learn how the Earth's movement causes days, years and seasons.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Cumulative assessment

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Year 9 Science

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Biology

In Year 9 Biology, you'll discover how microbes can be both helpful and harmful, learn how diseases spread, and explore how your body protects itself using the immune system and vaccinations. You'll investigate cells in more detail using microscopes, learn about specialised cells and stem cells, and study how organs such as the heart and lungs work together to keep your body alive and healthy.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Written task
- Cumulative assessment

Chemistry

In Year 9 Chemistry, you'll explore the structure of atoms and discover how scientists developed our modern understanding of matter. You'll learn about the periodic table, why elements have different properties, and how atoms combine to form compounds. You'll also investigate metal reactivity, electrolysis, extracting metals from ores, and how chemists separate and identify substances.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Cumulative assessment

Physics

In Year 9 Physics, you'll learn about forces, pressure, electricity and waves. You'll investigate magnets and electromagnets, explore how electric circuits work, and learn how resistance affects current. You'll study light and sound waves, discover how particles behave in solids, liquids and gases, and explain phenomena such as density, heating and changes of state using particle theory.

How will I be assessed?

- Low stakes recall quizzing
- End of topic reviews
- Written task
- Cumulative assessment

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