

Our intent is that all students have a full understanding of how to develop themselves as well rounded citizens, maintain their

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- Links with local industries, businesses and organisations, innovative external speakers, events and resources
- Opportunities for students to visit University Science Departments
- Science based activity days
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We run a series of 'Careers in the Curriculum' weeks in our school. For Science, this week takes place in January.

Students take part in a number of activities to encourage them to think about how what they learn in the classroom can be applied in a number of future careers.

Our rewards system can be broadly split into four categories: classroom level, subject level, school level and privilege rewards. We'll focus on classroom and subject rewards here - for more information about our rewards schemes, please see our website.

CLASSROOM LEVEL REWARDS

Awarded for: working hard, taking risks and rising to a challenge,

Edition 4
January
2023

SCIENCE

Curriculum Intent

The Science curriculum is inclusive and ambitious for all students, designed to engage students and strengthen the memory of what is being learnt.

The curriculum is organised into 12 Big Ideas that are developed through a series of key concepts organised into teaching topics which are revisited throughout the KS3, 4 and 5 programmes of study.

The Science curriculum is planned to build increasingly sophisticated knowledge of the products and practices of Science.

Year 11 Curriculum

In Year 11 students will learn about the following key ideas delivered in smaller units of study.

Homeostasis and Response

Students will learn about the control systems that the human body has to achieve these optimal conditions.

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Students will discover how the number of chromosomes are halved during meiosis and then combined with new genes from

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Ecology

Students will look at the delicate interactions between living and non-living things within ecosystems.

Energy Changes

Energy changes are an important part of chemical reactions. Students will learn about endothermic and exothermic chemical reactions.

Organic Chemistry

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including how they are extracted and

The Science Way