

KS3 SCIENCE: INTRODUCTION

Everyone must follow a National Curriculum Science course. Students will study a number of Biology, Chemistry and Physics units meeting the AQA Specification from years 7-11. Bespoke modules of work are created to meet the needs of the students.

WHAT TOPICS WILL I STUDY DURING THE COURSE?

Biology	Chemistry	Physics
Cells Movement Breathing	Particle model Separating mixtures	Contact forces Gravity Speed Pressure
Variation Human reproduction Plant Reproduction	Periodic table Elements Metals and non-metals	Energy transfer, Heating and cooling Sound Light
Digestion Respiration Photosynthesis	Chemical energy Types of Reaction Acids and alkalis	Magnetism Current, Voltage Resistance Electromagnets
Interdependence Inheritance Evolution	Earth structure Earth resources Climate	Wave effect Wave properties Work Energy Resources Energy costs Universe

WHAT SKILLS WILL I USE AND DEVELOP?

You will have the opportunity to study key concepts that you will come across in everyday life and link them to scientific ideas and their implications for society. This will be done in a creative way allowing you to complete practical activities within a laboratory setting.

You will learn to develop a critical approach to questioning the world around you;

You will learn how to collect and process scientific evidence and develop your understanding of how science works.

WHAT EXAMINATIONS WILL I TAKE?

End of unit assessments and end of year assessments.

HOW WILL MY WORK BE ASSESSED?

During KS3, each module will run for approximately 6 weeks. During that time there will be a range of assessment opportunities. These could be a mixture of the following: a check-point activity, an assessed homework, an assessed piece of classwork and/or an assessment with a focus on literacy or numeracy. At the end of each unit pupils will complete a test.

HOW WILL THE COURSE HELP ME WITH MY FUTURE CAREER?

It's no secret that in today's job market, STEM – or Science, Technology, Engineering and Mathematics – is in demand. Graduates and school leavers are constantly being reminded of the importance of obtaining tech skills in order to be competitive, with many of the top-paying jobs in the world coming under the STEM umbrella.

It's not just today's market where STEM jobs are king, either – its tomorrow's, too. As technology evolves and we become ever more reliant on the digital world around us, occupations within the STEM field are likely to replace many traditional professions.

<https://www.careeraddict.com/stem-careers>

USEFUL WEBSITES TO SUPPORT LEARNING

- Seneca Learning is a free learning platform where you can access revision materials and online assessments to test your understanding - <https://senecalearning.com/en-GB/>
- BBC Bitesize KS3 Science - <https://www.bbc.co.uk/bitesize/subjects/zng4d2p>

WHO SHOULD I CONTACT FOR MORE INFORMATION?

Rachel Byron (Head of Science)
rbyron@thoaksacademy.co.uk