

Intent:

- Pupils will have a greater understanding of science and how it fits into the world around them.
- Pupils will develop and demonstrate a range of skills through science activities and studies.
- Pupils will help develop and demonstrate understanding of current issues pertaining to the sciences.
- Pupils will gain a sense of pride in their achievements
- Pupils will learn as a team with a shared positive ethos and purpose.

Term	Week/s	Topic/Theme <i>Steam</i>	Learning Outcomes Knowledge and Skills To know, to use, to apply...	Literacy Link Numeracy Link SMSC Link
Autumn	1-8	The Human Machine Modules A: 1, 4, 6, 7	<ul style="list-style-type: none"> • To understand the body from various perspectives, by carrying out a variety of experiments. • To use skills in order to plan, carry out and review the experiments. 	Literacy – research, writing, expanding vocabulary Numeracy – numbers up to 100 SMSC – Enjoy learning about themselves, Cooperate with others
	9-15	Forces and Motion Modules A: 1,3,4,5	<ul style="list-style-type: none"> • To investigate various aspects of forces and motion. • To use skills in order to plan, carry out and review the experiments. 	Literacy – reading factual information, writing, describing Numeracy – measuring SMSC – Enjoy learning about the world around them, Cooperate with others
Spring	1-6	Chemical Change Modules A: 1,2,3,4,6	<ul style="list-style-type: none"> • To investigate change and observe closely to recognise patterns. • To use skills in order to plan, carry out and review the experiments. 	Literacy – reading factual information, writing, expanding vocabulary Numeracy – using scales, measuring, patterns in numbers. SMSC – Cooperate with others, Enjoy learning about the world around them
	6-12	Biological Challenges Modules B:1	To investigate how the environment changes both naturally and when changed by man, look at how diet can affect us. To use skills in order to plan, carry out and review the experiments.	Literacy – reading factual information, expanding vocabulary, discussion Numeracy – graphs, measuring SMSC – Investigate moral and ethical issues, Enjoy learning about themselves.
Summer	1-5	Space Modules A: 2,3,4,7	To carry out research and extract relevant information, use IT skills to display this in a variety of ways. To practise key scientific enquiry skills in order to plan, carry out and review the experiments.	Literacy – reading factual information, research, expanding vocabulary, discussion, presenting information differently. Numeracy – graphs, compare measurements SMSC – Enjoy learning about the world around them
	6-12	Performance in Sport Module B:3	Compare two sets of data in order to identify patterns. To use key scientific enquiry skills in order to plan, carry out and review the experiments.	Literacy – discussion Numeracy – graphs, measuring SMSC – Enjoy learning about themselves, Cooperate with others

Intended impact:

Pupils' confidence in using skills related to scientific enquiry will develop, enabling them to access the Y11 curriculum. Pupils will be able to learn more independently, developing employability skills. Pupils will be curious about the world around them, applying what they learn in familiar and unfamiliar contexts.

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Autumn	1-8	Topic B1b - Health, Disease and the Development of Medicines	Pupils will <ul style="list-style-type: none"> • know how diseases are spread, • which medicines are needed, • how to stop spread of diseases, • how medicines are developed. 	Literacy – reading factual information, writing, expanding vocabulary Numeracy – using and interpreting graphs SMSC – Knowing right and wrong
	9-15	Topic C1b - separating mixtures, breaking down substances acids and metals	<ul style="list-style-type: none"> • Pupils will know that industry uses specific techniques which are necessary to make money. • Pupils will know that the world is made of chemicals which are all found in the Periodic table. • Pupils will understand that scientists use this information to make new things that are useful. 	Literacy – reading factual information, writing, describing Numeracy – measuring SMSC – Enjoy learning about the world around them
Spring	1-6	Topic P1b - waves and radiation	<ul style="list-style-type: none"> • Pupils will know some of the dangers of radiation, • Pupils will describe the applications and technology of radiation • Pupils will be able to apply maths to real life problems • Pupils will build up models e.g. electromagnetic radiation travels in waves, importance of safety. 	Literacy – reading factual information, writing, expanding vocabulary Numeracy – using equations, addition, doubling SMSC – Investigate moral and ethical issues
	6-12	Sex and relationships	Pupils will know how to make positive choices and the right personal choices Pupils will understand their rights and responsibilities Pupils will be confident in making safe choices and knowing their rights and responsibilities Pupils will continue to build their knowledge of science.	Literacy – reading factual information, expanding vocabulary, discussion SMSC – Investigate moral and ethical issues, Enjoy learning about themselves, Accept British values
Summer	1-5	Sex and relationships	Pupils will know how to make positive choices and the right personal choices Pupils will understand their rights and responsibilities Pupils will be confident in making safe choices and knowing their rights and responsibilities Pupils will continue to build their knowledge of science.	Literacy – reading factual information, expanding vocabulary, discussion SMSC – Investigate moral and ethical issues, Enjoy learning about themselves, Accept British values
	6-9	Life cycle - humans	Pupils will understand the human life cycle from birth through rites of passage to dying. Pupils will be able to make informed choices to ensure they are safe and healthy. Pupils will investigate moral and ethical issues around rites of passage and death.	Literacy – discussion SMSC – Investigate moral and ethical issues, Enjoy learning about themselves

Intended impact:

Pupils' confidence in using skills related to scientific enquiry will develop, allowing them to confidently move into a Post 16 setting. Pupils will continue to learn more independently, developing employability skills. Pupils will be curious about the world around them, applying what they learn in familiar and unfamiliar contexts. Pupils will be confident about asking questions and finding out about their lives and the lives of those around them.