Science

Intent:

At the Marches School we aim to embrace the natural curiosity of our pupils, through an innovative and inspiring science curriculum. We encourage students to ask questions and think critically to develop a deep understanding of scientific concepts.

Context:

There are 10 'big ideas' in Science that make up and explain everything in the world around us:

- Forces
- Electromagnets
- Energy
- Waves
- Matter

- Reactions
- Earth
- Organisms
- Ecosystems
- Genes



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take you to the

study.

specification we

Trilogy Biology Key Stage 4 Overview

What is my Learning Journey for Year 10 and 11?

Content - Interdependence, adaptation, ecosystems, recycling materials, biodiversity and human impacts.

Bigger Picture Focus - To consider the impacts our actions have on other organisms and ways we can make positive changes.



B5 Homeostasis and response

Content - Homeostasis, the nervous system, hormonal coordination, blood glucose control, menstrual cycle, infertility

and contraception

Bigger Picture Focus - To understand

how we can manipulate the hormonal system to prevent pregnancy or help people have children who normally would not be able to.

B7 Ecology

Content - Levels of organisation, food, digestion, enzymes, heart and blood, cardiovascular disease, cancer, plant organs and plant transport

Bigger Picture Focus - To link how understanding how our bodies work enable scientists to develop a variety of ways of treating





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Content - Reproduction, DNA,

inheritance, inherited disorders,

Bigger Picture Focus - To

understand how we can use our

caused the loss of species

and classification

variation, evolution, selective breeding,

genetic engineering, fossils, extinction

knowledge of genetics to enhance crops,

develop more valuable livestock as well

as appreciating how our actions have

B3 Infection and response

B2 Organisation

YEAR

Content - Cells, specialised cells. microscopy, cell division, stem cells and transport in cells.

Bigger Picture Focus - To understand how knowledge of the fundamental building blocks that make up living organisms and can lead to the development of therapies to cure diseases.

Key Skills:

- Recall and retention of scientific facts
- Analysing and interpreting data
- Evaluating information

Exams:

-6 x 75 minute papers – 2 for biology, 2 for chemistry, 2 for physics There is no coursework element.

Assessments:

- -End of unit tests
- --6 mark question practice for each unit

#realworldready

- Appreciate how scientific understanding can lead to the development of cures and treatments for diseases to save live
- Understand how to minimise our impact on the organisms in the world around us
- Consider whether just because science allows us to manipulate organisms, should we be allowed to?
- Understand the importance of science to a wide variety of careers.

Useful websites and support

- -GCSE bitesize
- -GCSEpod
- -Oak Academy
- -Seneca
- -Educake
- -Savemyexams
- -Physics and maths tutor

Home Learning

-Weekly interleaving guizzes and homework Other tasks may include:

- -6 mark question practice for each unit
- Past paper practice
- -Flipped learning tasks

Content - Photosynthesis, rates of photosynthesis, aerobic and anaerobic respiration, responses to exercise and metabolism.

Bigger Picture Focus - To

understand the role of plants in our ecosystems and how, without them, we would not be here.

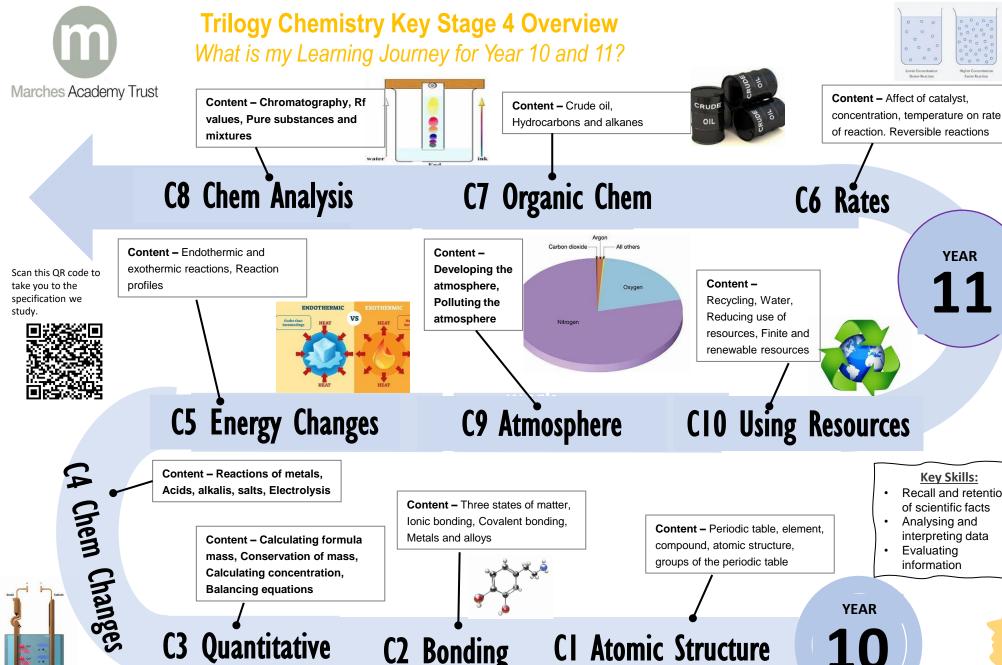
Content - Pathogens and the diseases they cause, human defences and the immune response, vaccination, antibiotics, drug discovery and development.

Bigger Picture Focus - To examine the different types of diseases and ways we can prevent their spread and treat them to save lives around the world.

YEAR

Microsc





Exams:

-6 x 75 minute papers – 2 for biology, 2 for chemistry, 2 for physics There is no coursework element.

Assessments:

- -End of unit tests
- --6 mark question practice for each unit

#realworldready

- Understanding about the elements that make up the world around us, how we can study and separate each of these elements and compounds.
- Looking at the history behind different scientific theories and understanding how these change over time.
- Topics look at how we can best look after the world around us and live more sustainably.
- Understand the importance of science to a wide variety of careers.

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Home Learning -Weekly interleaving guizzes and homework Other tasks may include: 6 mark question practice for each unit Past paper practice

-Flipped learning tasks

Key Skills:

YEAR

- Recall and retention of scientific facts
- Analysing and
- interpreting data Evaluating
- information



Trilogy Physics Key Stage 4 Overview

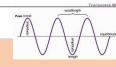
What is my Learning Journey for Year 10 and 11?

Content – Permanent and induced magnets, magnetic field, Electromagnets

P7 Magnets



Content – Labeling a wave, calculating wave speed, refraction, electromagnetic waves uses and dangers



Transacrae Wave contact and contact forces, Gravity, Law, Newton's laws, Sc Vector

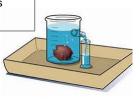
Content – Speed, Acceleration, Distance-Time graphs, Velocity-Time graphs, Contact and noncontact forces, Gravity, Hooke's Law, Newton's laws, Scalar and Vector

Scan this QR code to take you to the specification we study.



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Content – Density, States of matter, Changes of state, Gas particles



Content – Atomic model, Discovery of the atomic model, Isotopes, Ions, Radioactive decay, Uses and dangers of radiation

P6 Waves



Particle Model

P4 Atomic Structure

11

YEAR

P5 Forces

Content – Current, Voltage, Resistance, Power, National grid



Content – Energy stores, Energy calculations, Work, Power, Renewable and Non-Renewable



PI Energy



YEAR

Key Skills:

- Recall and retention of scientific facts
- Analysing and interpreting data
- Evaluating information

Exams:

-6 x 75 minute papers – 2 for biology, 2 for chemistry, 2 for physics There is no coursework element.

Assessments:

- -End of unit tests
- --6 mark question practice for each unit

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- Understanding how and why objects act in the way that they do
- Understanding the theories that Scientists have developed over time and how/why these change
- Looking at the use of electricity in everyday lives and how we can develop our usage to be more sustainable.
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Students continue to follow the GCSE specification in Science, building on the modules that underpin much of the specification taught in Y9 and KS3. Practical skills continue to be developed through class practical and required practical tasks

Year 10 Trilogy Science

Content / Units	Skills	Knowledge	Prior—Y9	Next—Y11
11 topics from the AQA trilogy specification. Split into specialisms 3 Biology units, 5 Chemistry units and 3 Physics units.	Literacy and Numeracy skills are built in science, literacy through the use of 6 mark level of response questions and numeracy though the multiple equations and mathematical processes that students will need to employ in all three sciences (10% of the Biology, 20% of the Chemistry and 30% of the Physics GCSE content is L2 or equivalent mathematics).	B2 – Organisation B3 – Infection and Response B5 – Homeostasis and Response C2 – Bonding C3 – Quantitative Chemistry C4 – Chemical Changes C9 – Atmosphere C10 – Using Resources P2 – Electricity P3 – Particle Model P4 – Atomic Structure	GCSE content, covering the basic principles in Biology, Chemistry and Physics – C1 Atomic Structure, B1 Cell Biology, P1 and P2 – Energy and Electricity.	In year 11 will continue with the GCSE trilogy content – building on the content covered in year 10. B6, B7 C6, C7, C8 P5, P6, P7

Implementation	Marches Futures Links	Summative Assessment
The units taught in Y10 are designed to cover all of the content that is covered in Paper one of each of the three science specialisms and more (content that appears and is assessed in Paper 2) in order to front load content. In all of these modules LORIC opportunities present themselves naturally in practical lessons and also in lessons where past exam questions are being tackled (communication, organisation and resilience in 6mark LOR questions). Home learning will be focused on flipped learning researching topics and completing past examination questions. Some home learning will be specified interleaving homeworks to ensure the long term recall and long term embedding of knowledge of the units covered in Y9 and Y10. Some topics include Required Practicals to be covered, where certain skills are required, these include: • safe use of appropriate heating devices and techniques • use of appropriate apparatus to make and record a range of measurements • safe and ethical use of living organisms	Science week is the second week in March and lessons during this week have a focus on STEM careers and further education links. SMSC is covered in each topic (see schemes) links made to relationships and sex during B3 when looking at infectious diseases and STIs. Links to careers are made at the start of each topic and required practicals link to further education and careers.	All units include: 6 Mark LOR questions Low stake testing End of Unit Tests Some units include: Required practical tasks set by the exam board
Trilogy Science is taught across 5 hours per week with specialist Science teachers – specialism content taught by 2 or 3 teachers per group.		

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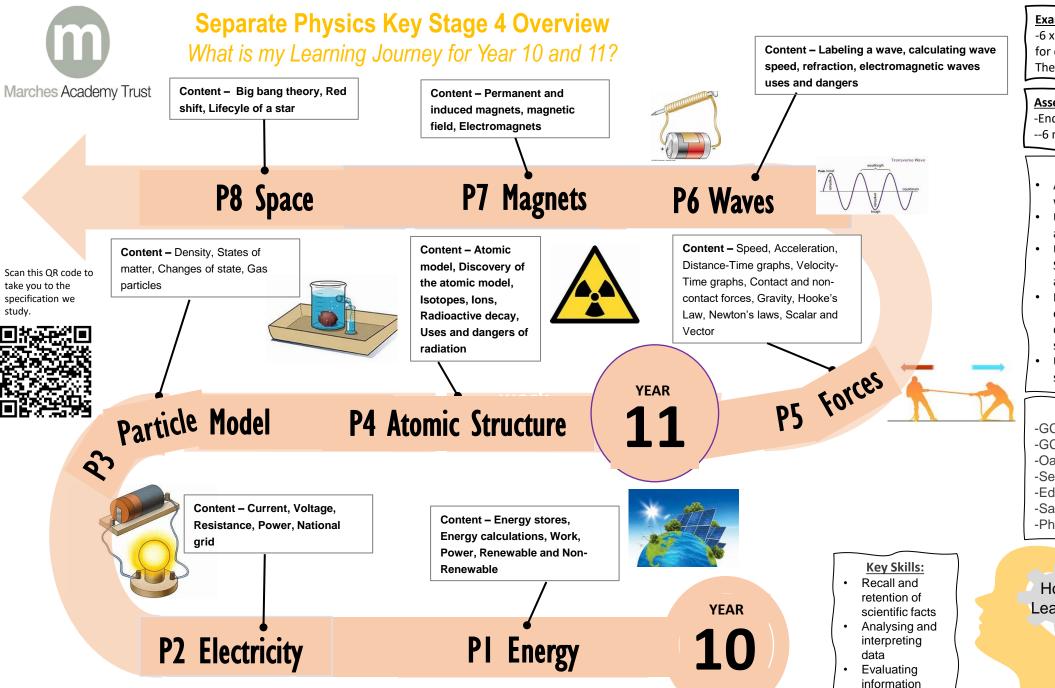
Students continue to complete the GCSE specification in Science, building on the modules that underpin much of the specification taught in Y9, Y10 and KS3. Practical skills continue to be developed through class practical and required practical tasks

Year 11 Trilogy Science

Content / Units	Skills	Knowledge	Prior—Y10	Next—KS5
8 topics from the AQA trilogy specification. Split into specialisms 2 Biology units, 3 Chemistry units and 3 Physics units.	the use of 6-mark level of response questions and numeracy though the multiple equations and mathematical processes that students will need to employ in all three sciences (10% of the Biology, 20% of the Chemistry and 30% of the Physics GCSE content is L2 or equivalent mathematics).	evolution B7 – Ecology C6 – Rates	the trilogy AQA specification. This knowledge from year 10	Year 12 Biology, Chemistry and Physics build upon the knowledge taught at KS4. At KS5 the OCR specification is taught for the Sciences.

three science specialisms. In all of these modules LORIC opportunities present themselves naturally in practical lessons and also in lessons during this week have a focus and lessons during this week have a focus on STEM careers and further education links. **Gold three science specialisms**. In all of these modules LORIC opportunities present themselves naturally in practical lessons and also in and lessons during this week have a focus on STEM careers and further education links. **Gold three science specialisms**. In all of these modules LORIC opportunities present themselves naturally in practical lessons and also in and lessons during this week have a focus on STEM careers and further education links. **End of Unit In data to the doctor which the description in the science where the science specialisms**.	Implementation	Summative Assessment
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Impact



Exams:

-6 x 75 minute papers – 2 for biology, 2 for chemistry, 2 for physics There is no coursework element.

Assessments:

- -End of unit tests
- --6 mark question practice for each unit

#realworldready

- Appreciate how our Earth is part of a wider system and the study into this.
- Understanding how and why objects act in the way that they do
- Understanding the theories that Scientists have developed over time and how/why these change
- Looking at the use of electricity in everyday lives and how we can develop our usage to be more sustainable.
- Understand the importance of science to a wide variety of careers.

Useful websites and support

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- -GCSEpod
- -Oak Academy
- -Seneca
- -Educake
- -Savemyexams
- -Physics and maths tutor

Home Learning

- -Weekly interleaving quizzes and homework Other tasks may include:
- -6 mark question practice for each unit
- Past paper practice
- -Flipped learning tasks

Students continue to follow the GCSE specification in Science, building on the modules that underpin much of the specification taught in Y9 and KS3. Practical skills continue to be developed through class practical and required practical tasks

Year 10 Physics

Content / Units	Skills	Knowledge	Prior—Y9	Next—Y11
4 topics from the AQA Chemistry specification, a mixture of paper 1 and paper 2 content.	mark level of response questions and numeracy though the multiple equations and mathematical processes that students will need to	P3 – Particle Model P4 – Atomic Structure	GCSE content, covering the basic principles in Physics = P1 and P2 – Energy and Electricity.	In year 11 will continue with the GCSE trilogy content – building on the content covered in year 10. P5 - Forces P6 – Waves P7 - Magnets

Implementation	Marches Futures Links	Summative Assessment
LORIC opportunities present themselves naturally in practical lessons and also in lessons where past exam questions are being tackled (communication, organisation and resilience in 6mark LOR questions). Home learning will be focused on flipped learning researching topics and completing past examination questions. Some home learning will be specified interleaving homework to ensure the long-term recall and long-term embedding of knowledge of the units covered in Y9 and Y10. Some topics include Required Practicals to be covered, where certain skills are required, these include: • safe use of appropriate heating devices and techniques	Science week is the second week in March and lessons during this week have a focus on STEM careers and further education links. SMSC is covered in each topic (see schemes) links made to the wider world in P8, P2 use of electricity. Links to careers are made at the start of each topic and required practicals link to further education and careers.	All units include: 6 Mark LOR questions Low stake testing End of Unit Tests Some units include: Required practical tasks set by the exam board
Separate Science is taught across 7 hours per week with specialist Science teachers – specialism content taught by 2 or 3 teachers per group.		

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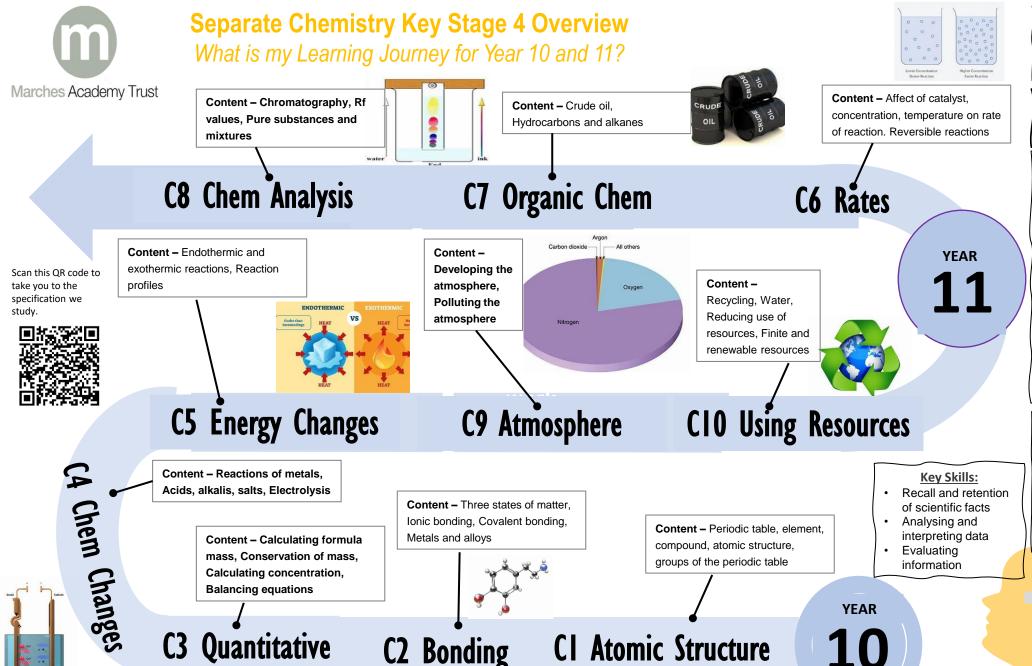
Students continue to complete the GCSE specification in Science, building on the modules that underpin much of the specification taught in Y9, Y10 and KS3. Practical skills continue to be developed through class practical and required practical tasks

Year 11 Physics

Content / Units	Skills	Knowledge	Prior—Y10	Next—KS5
3 topics from the AQA Physics specification.	mark level of response questions and numeracy though the multiple	P7 - Magnetism	the trilogy AQA specification.	Year 12 Physics builds upon the knowledge taught at KS4. At KS5 the OCR specification is taught for the Sciences.

Implementation	Marches Futures Links	Summative Assessment
where past exam questions are being tackled (communication, organisation and resilience in 6mark LOR questions). Home learning will be focused on flipped learning researching topics and completing past examination questions, with added emphasis on exam style questions and refining examination technique in preparation for the examinations. Some home learning will be specified interleaving homework to ensure the long-term recall and long-term embedding of knowledge of the units covered in Y9 and Y10. Some topics include Required Practicals to be covered, where certain skills are required, these include: • safe use of appropriate heating devices and techniques • use of appropriate apparatus to make and record a range of measurements	Science week is the second week in March and lessons during this week have a focus on STEM careers and further education links. SMSC is covered in each topic (see schemes) Links to careers are made at the start of each topic and required practicals link to further education and careers.	All units include: 6 Mark LOR questions Low stake testing End of Unit Tests Some units include: Required practical tasks set by the exam board
Separate Science is taught across 7 hours per week with specialist Science teachers – specialism content taught by 2 or 3 teachers per group.		

Impact



Exams:

-6 x 75 minute papers – 2 for biology, 2 for chemistry, 2 for physics There is no coursework element.

Assessments:

- -End of unit tests
- --6 mark question practice for each unit

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- Understanding about the elements that make up the world around us, how we can study and separate each of these elements and compounds.
- Looking at the history behind different scientific theories and understanding how these change over time.
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Home Learning

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Year 10 Chemistry

Content / Units	Skills	Knowledge	Prior—Y9	Next—Y11
paper 2 content.	level of response questions and numeracy though the multiple	•	GĆSE content, covering the basic principles in Chemistry – C1 Atomic Structure,	In year 11 will continue with the GCSE Chemistry content – building on the content covered in year 10. C6, C7, C8

Implementation	Marches Futures Links	Summative Assessment
The units taught in Y10 are designed to cover all of the content that is covered in Paper one of each of the three science specialisms and more (content that appears and is assessed in Paper 2) in order to front load content. In all of these modules LORIC opportunities present themselves naturally in practical lessons and also in lessons where past exam questions are being tackled (communication, organisation and resilience in 6mark LOR questions). Home learning will be focused on flipped learning researching topics and completing past examination questions. Some home learning will be specified interleaving homework to ensure the long-term recall and long-term embedding of knowledge of the units covered in Y9 and Y10. Some topics include Required Practicals to be covered, where certain skills are required, these include: • safe use of appropriate heating devices and techniques • use of appropriate apparatus to make and record a range of measurements • safe and ethical use of living organisms Separate Science is taught across 7 hours per week with specialist Science teachers – specialism content taught by 2 or 3 teacher per group.	Science week is the second week in March and lessons during this week have a focus on STEM careers and further education links. SMSC is covered in each topic (see schemes) links made to the wider world in C9 and C10 – pollution etc. Links to careers are made at the start of each topic and required practicals link to further education and careers.	All units include: 6 Mark LOR questions Low stake testing End of Unit Tests Some units include: Required practical tasks set by the exam board

Impact:

Students continue to complete the GCSE specification in Science, building on the modules that underpin much of the specification taught in Y9, Y10 and KS3. Practical skills continue to be developed through class practical and required practical tasks

Year 11 Chemistry

Content / Units	Skills	Knowledge	Prior—Y10	Next—KS5
3 topics from the AQA Chemistry specification.	level of response questions and numeracy though the multiple	C6 – Rates C7 – Organic Chemistry C8 – Chemical analysis	the trilogy AQA specification.	Year 12 Chemistry builds upon the knowledge taught at KS4. At KS5 the OCR specification is taught for the Sciences.

• safe use of appropriate heating devices and techniques Links to careers are made at the start of each topic and required practicals link to	Implementation	Marches Futures Links	Summative Assessment
• safe and ethical use of living organisms Separate Science is taught across 7 hours per week with specialist Science teachers – specialism content taught by 2 or 3 teachers per group.	specification. In all these modules LORIC opportunities present themselves naturally in practical lessons and also in lessons where past exam questions are being tackled (communication, organisation and resilience in 6mark LOR questions). Home learning will be focused on flipped learning researching topics and completing past examination questions, with added emphasis on exam style questions and refining examination technique in preparation for the examinations. Some home learning will be specified interleaving homework to ensure the long-term recall and long-term embedding of knowledge of the units covered in Y9 and Y10. Some topics include Required Practical's to be covered, where certain skills are required, these include: • safe use of appropriate heating devices and techniques • use of appropriate apparatus to make and record a range of measurements • safe and ethical use of living organisms Separate Science is taught across 7 hours per week with specialist Science teachers – specialism content taught by 2 or 3 teachers	and lessons during this week have a focus on STEM careers and further education links. SMSC is covered in each topic (see schemes) Links to careers are made at the start of each topic and required practicals link to further education and careers.	 6 Mark LOR questions Low stake testing End of Unit Tests Some units include: Required practical tasks

Impact



Separate Biology Key Stage 4 Overview

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Bigger Picture Focus - To consider the impacts our actions have on other organisms and ways we can make positive changes.



B5 Homeostasis and response

exercise and metabolism.

would not be here.

Bigger Picture Focus - To

understand the role of plants in our

ecosystems and how, without them, we

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Bioenergetics

Content - Homeostasis, the nervous system, hormonal coordination, blood glucose control, menstrual cycle, infertility and contraception

Bigger Picture Focus - To understand

how we can manipulate the hormonal system to prevent pregnancy or help people have children who normally would not be able to.

B7 Ecology

Content - Levels of organisation, food, digestion, enzymes, heart and blood, cardiovascular disease, cancer, plant organs and plant transport

Bigger Picture Focus - To link how understanding how our bodies work enable scientists to develop a variety of ways of treating





Content - Reproduction, DNA,

inheritance, inherited disorders,

Bigger Picture Focus - To

understand how we can use our

and classification

variation, evolution, selective breeding,

genetic engineering, fossils, extinction

knowledge of genetics to enhance crops,

develop more valuable livestock as well

as appreciating how our actions have caused the loss of species

evolutionor

B3 Infection and response

B2 Organisation

YEAR

Content - Cells, specialised cells. microscopy, cell division, stem cells and transport in cells.

Bigger Picture Focus - To understand how knowledge of the fundamental building blocks that make up living organisms and can lead to the development of therapies to cure diseases.

Key Skills:

- Recall and retention of scientific facts
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Content - Pathogens and the diseases they Content - Photosynthesis, rates of cause, human defences and the immune response, photosynthesis, aerobic and vaccination, antibiotics, drug discovery and anaerobic respiration, responses to

development.

world.

Bigger Picture Focus - To examine the different types of diseases and ways we can prevent their spread and treat them to save lives around the



YEAR

Microsc

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Year 10 Biology

Content / Units	Skills	Knowledge	Prior—Y9	Next—Y11
paper 2 content.	Literacy and Numeracy skills are built in science, literacy through the use of 6 mark level of response questions and numeracy though the multiple equations and mathematical processes that students will need to employ in Biology (10% of the Biology GCSE content is L2 or equivalent mathematics).	B3 – Infection and Response	GCSE content, covering the basic principles in B1 Cell Biology,	In year 11 will continue with the GCSE Biology content – building on the content covered in year 10. B6 – Inheritance, Variation and Evolution B7 – Ecology

Implementation	Marches Futures Links	Summative Assessment
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embedding of knowledge of the units covered in Y9 and Y10. Some topics include Required Practicals to be covered, where certain skills are required, these include: • safe use of appropriate heating devices and techniques • use of appropriate apparatus to make and record a range of measurements • safe and ethical use of living organisms	SMSC is covered in each topic (see schemes) links made to relationships and sex during B3 when looking at infectious diseases and STIs. Links to careers are made at the start of each topic and required practicals link to further education and careers.	Required practical tasks set by the exam board
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Year 11 Biology

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2 topics from the AQA Biology specification.	mark level of response questions and numeracy though the multiple	B6 – Inheritance, variation and evolution B7 – Ecology	the trilogy AQA specification.	Year 12 Biology builds upon the knowledge taught at KS4. At KS5 the OCR specification is taught for the Sciences.

Implementation	Marches Futures Links	Summative Assessment
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