

	Autumn 1 Sept-Oct 2023	Autumn 2 Nov-Dec 2023	Spring 3 Jan-Feb 2024	Spring 4 Mar-Apr 2024	Summer 5 Apr-May 2024	Summer 6 Jun-Jul 2024
YEAR 7	<p>Knowledge: Students will be introduced to key practical scientific and numeracy skills. Students will also learn about some fundamental ideas in science including:</p> <ul style="list-style-type: none"> • I'm a scientist • Cells • Contact Forces and pressure <p>Skills: Students will learn about safe practices in the laboratory, handling scientific equipment, collecting and using data.</p>	<p>Knowledge: Students will learn about key concepts including:</p> <ul style="list-style-type: none"> • The particle model • The Periodic Table and the Elements • Breathing part 1 • Revision <p>Skills: Students will learn about safe practices in the laboratory, handling scientific equipment and making scientific measurements, collecting and using data.</p> <p>End of term Assessment covering all concepts learnt in the Autumn term</p>	<p>Knowledge: Students will learn about key concepts including:</p> <ul style="list-style-type: none"> • Space • Reproduction <p>Skills: Students will learn about safe practices in the laboratory, handling scientific equipment and making scientific measurements, collecting and using data.</p>	<p>Knowledge: Students will learn about key concepts including:</p> <ul style="list-style-type: none"> • Interdependence <p>Skills: Students will learn about safe practices in the laboratory, handling scientific equipment and making scientific measurements, collecting and using data.</p> <p>End of term Assessment covering all concepts learnt in the Spring term</p>	<p>Knowledge: Students will learn about key concepts including:</p> <ul style="list-style-type: none"> • Mixtures • Energy Transfers <p>Skills: Students will learn about safe practices in the laboratory, handling scientific equipment and making scientific measurements, collecting and using data.</p>	<p>Knowledge: Students will learn about key concepts including:</p> <ul style="list-style-type: none"> • Electric Circuits • Revision <p>Skills: Students will learn about safe practices in the laboratory, handling scientific equipment and making scientific measurements, collecting and using data.</p> <p>End of term Assessment covering all concepts learnt in the Summer term</p>
YEAR 8	<p>Knowledge: Students will continue to learn about and develop key concepts further including:</p> <ul style="list-style-type: none"> • The Universe • Gravity • Acids and Alkalis • Human Reproduction <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Handling large numbers and writing numbers in standard form • Learn about the concept of vectors and their effects • The use of models • Develop skills for the safe handling of hazardous chemicals . 	<p>Knowledge: Students will continue to learn about and develop key concepts further including:</p> <ul style="list-style-type: none"> • Digestion • Magnetism • Climate <p>Skills: This term students will continue to develop their safe practical skills in chemical analysis of food stuffs, investigative skills and data handling.</p> <p>End of term Assessment covering all concepts learnt in the Autumn term</p>	<p>Knowledge: Students will continue to learn about and develop key concepts further including:</p> <ul style="list-style-type: none"> • Life Diversity • Changing Substances <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Safe handling of common chemicals • Handling large numbers and writing numbers in standard form • Balancing equations. 	<p>Knowledge: Students will continue to learn about and develop key concepts further including:</p> <ul style="list-style-type: none"> • Magnetism • Acids and Alkalis <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Safe handling of common chemicals • Handling large numbers and writing numbers in standard form • Balancing equations. <p>End of term Assessment covering all concepts learnt in the spring term</p>	<p>Knowledge: Students will continue to learn about and develop key concepts further including:</p> <ul style="list-style-type: none"> • Electric Circuits • Nutrition <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Building circuits • Using circuit symbols • Using models 	<p>Knowledge: Students will continue to learn about and develop key concepts further including:</p> <ul style="list-style-type: none"> • Light • Plant Reproduction • Revision <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Evaluating models • Effective method of revision <p>End of term Assessment covering all concepts learnt in the summer term</p>

YEAR 9	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • B1 T1 Cell Biology • C1 T1 Atomic Structure & the Periodic Table <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • P1 T1 Energy • B1 T2 Organisation <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • C1 T2 Bonding and Structure and Properties of Matter • P1 T2 Electricity <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • B1 T3 Infection and Response • Revision <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • C1 T4 Chemical Changes • P1 T3 Particle Model of Matter <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • B1 T4 Bioenergetics • P1 T4 Structure of Atom <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately.
YEAR 10	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • P1 T4 Structure of Atom • C2 T6 Energy Changes • C2 T7 Organic Chemistry <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • B1 T4 Bioenergetics • B2 T5 Homeostasis <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • P2 T5 Forces • Revision <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • B2 T6 Evolution <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • P2 T6 Waves • Revision <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately. 	<p>Knowledge: Students cover the topics:</p> <ul style="list-style-type: none"> • Mock Preparation • C2 T9 Atmosphere <p>Skills: Students will develop skills such as:</p> <ul style="list-style-type: none"> • Carry out Practical investigations and experiments safely and fairly • Using complex scientific equipment and making accurate measurements • Develop models to conceptualise key ideas • Develop their capacity to knowledge to new situations • Collect and use data to draw reliable conclusions • To use formulas to evaluate a variety of variables • To plot data and describe pattern accurately.

Knowledge:
 Students cover the topics:

- P2 T7 Magnetism
- Unit 1 Mock Revision

Skills:
 Students will develop skills such as:

- Carry out Practical investigations and experiments safely and fairly
- Using complex scientific equipment and making accurate measurements
- Develop models to conceptualise key ideas
- Develop their capacity to knowledge to new situations
- Collect and use data to draw reliable conclusions
- To use formulas to evaluate a variety of variables
- To plot data and describe pattern accurately.

Knowledge:
 Students cover the topics:

- B2 T7 Ecology

Skills:
 Students will develop skills such as:

- Carry out Practical investigations and experiments safely and fairly
- Using complex scientific equipment and making accurate measurements
- Develop models to conceptualise key ideas
- Develop their capacity to knowledge to new situations
- Collect and use data to draw reliable conclusions
- To use formulas to evaluate a variety of variables
- To plot data and describe pattern accurately.

Y11 Mock Exams in Biology and Physics Units 1

Knowledge:
 Students cover the topics:

- P2 T8 Space
- Unit 2 Mock Revision

Skills:
 Students will develop skills such as:

- Carry out Practical investigations and experiments safely and fairly
- Using complex scientific equipment and making accurate measurements
- Develop models to conceptualise key ideas
- Develop their capacity to knowledge to new situations
- Collect and use data to draw reliable conclusions
- To use formulas to evaluate a variety of variables
- To plot data and describe pattern accurately.

Knowledge:

- Students cover the topics:
- Biology Exam Preparation
- Physics Exam Preparation

Skills:
 Students will develop a variety a revision techniques including revision challenge grid, practice exam questions and past exam papers, making mind maps, and making revision flash cards.

Y11 Mock Exams in Biology and Physics Units 2

Exam Revision and Preparation Sessions.

Skills:
 Students will develop a variety a revision techniques including revision challenge grid, practice exam questions and past exam papers, making mind maps, and making revision flash cards.

GCSE Exams start from week 31