

Curriculum (Science) Overview



Believe, Succeed, Together

2018

Year 7 KS3 SCIENCE

	Autumn Term	Spring Term	Summer Term
Topics	<p><u>Biology T1</u></p> <ul style="list-style-type: none"> • Cell Biology <p><u>Chemistry T1</u></p> <ul style="list-style-type: none"> • Atomic Structure and the Periodic Table <p><u>Physics T1</u></p> <ul style="list-style-type: none"> • Energy 	<p><u>Biology T2</u></p> <ul style="list-style-type: none"> • Organization <p><u>Chemistry T2</u></p> <ul style="list-style-type: none"> • Bonding, Structure and the Properties of Matter <p><u>Physics T2</u></p> <ul style="list-style-type: none"> • Electricity 	<p><u>Biology T3</u></p> <ul style="list-style-type: none"> • Infection and Response <p><u>Chemistry T3</u></p> <ul style="list-style-type: none"> • Quantitative Chemistry <p><u>Physics T3</u></p> <ul style="list-style-type: none"> • Particle Model of Matter
Assessment	<p>Assessments are scheduled for the end of every unit – approximately every 3 weeks. DRAFT tasks are scheduled one per unit – approximately every 3 weeks. Students are introduced to exam and subject specifically vocabulary throughout the course. All students complete an end of year exam.</p>	<p>Assessments are scheduled for the end of every unit – approximately every 3 weeks. DRAFT tasks are scheduled one per unit – approximately every 3 weeks. Students are introduced to exam and subject specifically vocabulary throughout the course. All students complete an end of year exam.</p>	<p>Assessments are scheduled for the end of every unit – approximately every 3 weeks. DRAFT tasks are scheduled one per unit – approximately every 3 weeks. Students are introduced to exam and subject specifically vocabulary throughout the course. All students complete an end of year exam.</p>
Resources	<ul style="list-style-type: none"> • SMART Science text books • KS3 DRAFT and Test analysis booklets • KS3 CGP workbooks • Kerboodle • Access to online video tutorials • Homework booklets made up of graded structured questions and worksheets 	<ul style="list-style-type: none"> • SMART Science text books • KS3 DRAFT and Test analysis booklets • KS3 CGP workbooks • Kerboodle • Access to online video tutorials • Homework booklets made up of graded structured questions and worksheets 	<ul style="list-style-type: none"> • SMART Science text books • KS3 DRAFT and Test analysis booklets • KS3 CGP workbooks • Kerboodle • Access to online video tutorials • Homework booklets made up of graded structured questions and worksheets

YEAR 8 KS3 SCIENCE

	Autumn Term	Spring Term	Summer Term
Topics	<p><u>Biology T1</u></p> <ul style="list-style-type: none"> • Bioenergetics <p><u>Chemistry T1</u></p> <ul style="list-style-type: none"> • Chemical Changes <p><u>Physics T1</u></p> <ul style="list-style-type: none"> • Atomic Structure 	<p><u>Biology T2</u></p> <ul style="list-style-type: none"> • Homeostasis and Response <p><u>Chemistry T2</u></p> <ul style="list-style-type: none"> • Energy Changes <p><u>Physics T2</u></p> <ul style="list-style-type: none"> • Forces 	<p><u>Biology T3</u></p> <ul style="list-style-type: none"> • Inheritance, Variation and Evolution • Ecology <p><u>Chemistry T3</u></p> <ul style="list-style-type: none"> • Rate and Extent of Chemical Change • Organic Chemistry • Chemical analysis • Chemistry of the Atmosphere <p><u>Physics T3</u></p> <ul style="list-style-type: none"> • Forces • Waves • Magnetism and Electromagnetism
Assessment	<p>Assessments are scheduled for the end of every unit – approximately every 3 weeks. DRAFT tasks are scheduled one per unit – approximately every 3 weeks. Students are introduced to exam and subject specifically vocabulary throughout the course. All students complete an end of year exam.</p>	<p>Assessments are scheduled for the end of every unit – approximately every 3 weeks. DRAFT tasks are scheduled one per unit – approximately every 3 weeks. Students are introduced to exam and subject specifically vocabulary throughout the course. All students complete an end of year exam.</p>	<p>Assessments are scheduled for the end of every unit – approximately every 3 weeks. DRAFT tasks are scheduled one per unit – approximately every 3 weeks. Students are introduced to exam and subject specifically vocabulary throughout the course. All students complete an end of year exam.</p>

Resources	<ul style="list-style-type: none">• SMART Science text books• KS3 DRAFT and Test analysis booklets• KS3 CGP workbooks• Kerboodle• Access to online video tutorials <ul style="list-style-type: none">• Homework booklets made up of graded structured questions and worksheets	<ul style="list-style-type: none">• SMART Science text books• KS3 DRAFT and Test analysis booklets• KS3 CGP workbooks• Kerboodle• Access to online video tutorials <ul style="list-style-type: none">• Homework booklets made up of graded structured questions and worksheets	<ul style="list-style-type: none">• SMART Science text books• KS3 DRAFT and Test analysis booklets• KS3 CGP workbooks• Kerboodle• Access to online video tutorials <ul style="list-style-type: none">• Homework booklets made up of graded structured questions and worksheets
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YEAR 9 COMBINED SCIENCE

	Autumn Term	Spring Term	Summer Term
Topics	<p>Chemistry 1</p> <ul style="list-style-type: none"> • Atomic Structure and the Periodic Table • Bonding, Structure and Properties of Matter • Quantitative Chemistry • Chemical Changes • Energy Changes 	<p>Physics 1</p> <ul style="list-style-type: none"> • Energy • Electricity • Particle Model of Matter • Atomic Structure 	<p>Biology 1</p> <ul style="list-style-type: none"> • Cell Biology • Organisation • Infection and Response • Bioenergetics
Assessment	<p>Assessments are scheduled once every 3 weeks. Assessments take the form of a DRAFT task and also summative assessment. Exam style questions form an integral part of typical lessons, along with exposure to command words and exam technique. All pupils will sit and EOY exam.</p>	<p>Assessments are scheduled once every 3 weeks. Assessments take the form of a DRAFT task and also summative assessment. Exam style questions form an integral part of typical lessons, along with exposure to command words and exam technique. All pupils will sit and EOY exam.</p>	<p>Assessments are scheduled once every 3 weeks. Assessments take the form of a DRAFT task and also summative assessment. Exam style questions form an integral part of typical lessons, along with exposure to command words and exam technique. All pupils will sit and EOY exam.</p>
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YEAR 10 COMBINED SCIENCE

	Autumn Term	Spring Term	Summer Term
Topics	<p><u>Chemistry 2</u></p> <ul style="list-style-type: none"> • The Rate and Extent of Chemical Change • Organic Chemistry • Chemical Analysis • Chemistry of the Atmosphere • Using Resources 	<p><u>Physics 2</u></p> <ul style="list-style-type: none"> • Forces • Waves • Magnetism and Electromagnetism 	<p><u>Biology 2</u></p> <ul style="list-style-type: none"> • Homeostasis and Response • Inheritance, Variation and Evolution • Ecology
Assessment	<p>Assessments are scheduled once every 3 weeks. Assessments take the form of a DRAFT task and also summative assessment. Exam style questions form an integral part of typical lessons, along with exposure to command words and exam technique. All pupils will sit and EOY exam.</p>	<p>Assessments are scheduled once every 3 weeks. Assessments take the form of a DRAFT task and also summative assessment. Exam style questions form an integral part of typical lessons, along with exposure to command words and exam technique. All pupils will sit and EOY exam.</p>	<p>Assessments are scheduled once every 3 weeks. Assessments take the form of a DRAFT task and also summative assessment. Exam style questions form an integral part of typical lessons, along with exposure to command words and exam technique. All pupils will sit and EOY exam.</p>
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YEAR 11 COMBINED SCIENCE

	Autumn Term	Spring Term	Summer Term
Topics	Active revision of Chemistry 1 and Chemistry 2 (material studied in Year 9 & 10 respectively). Physics 1 and Physics 2 will also be revisited.	Biology 1 and Biology 2.	In the run up to the summer examinations all pupils will: <ul style="list-style-type: none"> • Receive refresher sessions on mathematical skills required for GCSE Science • Will sit additional mock examinations • Receive refresher sessions on examination technique, along with revision skills
Assessment	All pupils will sit past examination papers in: C1 & 2, P1 & 2. All pupils will sit mock examinations during the final weeks of the autumn term.	All pupils will sit past examination papers in B1 & 2. All pupils will receive an assessment pack (with mark schemes) to complete over the Easter holiday.	Examination questions and papers.
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	<ul style="list-style-type: none">• Bespoke Required Practical booklet• Access to online video tutorials on scientific topics	<ul style="list-style-type: none">• Bespoke Required Practical booklet• Access to online video tutorials on scientific topics• Pupils will have the opportunity to attend revision sessions during the Easter break	<ul style="list-style-type: none">• Bespoke Required Practical booklet• Access to online video tutorials on scientific topics
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