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Department: Science

**Blended Learning Curriculum Plans 2020-21 (TERM TWO)**

In the event of a local lockdown, students isolating or school closure, please outline your approach to blended learning below. DfE guidance stresses, there will be a need for ongoing provision of “remote learning” which “is high quality and aligns as closely as possible with in-school provision.” Within departments, this may mean planning each unit or area of learning with an eye on how it could translate into virtual or remote practice, if necessary. For example, it might mean preparing booklets or text-based resources which could be used by students at home as well as at school. It might even mean having procedures and infrastructure in place for recording lessons, or for allowing simultaneous online access to classroom teaching.

<b>Spring Term</b>	<b>Curriculum Time (Periods)</b>	<b>In-School provision (situation dependent)</b>	<b>Lockdown provision (situation dependent)</b>	<b>Resources available?</b>	<b>Assessment &amp; Feedback?</b>
Year 7	7 periods over 2 weeks	As per the curriculum map / ARES	<p><b><u>33% real time, 66% Independent and Guided</u></b></p> <p><b><u>Per teacher (shared class):</u></b>  <b><u>1 x live lesson:</u></b> Each science teacher to teach a live lesson via zoom as per TT for all to attend.</p> <p>Lesson 2 and 3: Work set for independent learning during next science lesson slot with that teacher.</p>	<p>Variety of resources used depending on topic, includes the following:</p> <p>Collins Connect – KS3 textbook, homework quizzes and end of topic tests</p> <p>Oak National Academy lessons</p> <p>Google classrooms for additional resources where needed</p> <p>GCSE pod</p> <p>BBC bitesize and learning on BBC2</p>	Regular homework quizzes via Collins Connect. Feedback during live lessons, on written submitted homework on Show My Homework and whole class feedback.
Topic/ Unit:	<p>Chapter 2: Eating, drinking and breathing</p> <p>Chapter 6: Energy transfers and sound</p>				
Year 8	7 periods over 2 weeks	As per the curriculum map / ARES	<b><u>33% real time, 66% Independent and Guided</u></b>	Variety of resources used depending on	Regular homework quizzes via Collins

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Topic/ Unit:	<p>Book 3 Chapter 1: Variation for survival</p> <p>Book 3 Chapter 5: Motion on Earth and in Space</p>		<p><b>Per teacher (shared class):</b> <b>1 x live lesson:</b> Each science teacher to teach a live lesson via zoom as per TT for all to attend.</p> <p>Lesson 2 and 3: Work set for independent learning during next science lesson slot with that teacher.</p>	<p>topic, includes the following:</p> <p>Collins Connect – KS3 textbook, homework quizzes and end of topic tests</p> <p>Oak National Academy lessons</p> <p>Google classrooms for additional resources where needed</p> <p>GCSE pod</p> <p>BBC bitesize and learning on BBC2</p>	<p>Connect. Feedback during live lessons, on written submitted homework on Show My Homework and whole class feedback.</p>
Year 9	9 periods over 2 weeks	As per the curriculum map / AREs	<b>33% real time, 66% Independent and Guided</b>	Variety of resources used depending on topic, includes the following:	Regular homework quizzes via Collins Connect.
Topic/ Unit:	<p>Biology: Chapter 2: Photosynthesis</p> <p>Chemistry: Chapter 4: Chemical Changes</p> <p>Physics: Chapter 3 Particle Model of Matter, Chapter 4 Atomic Structure</p>		<p><b>Over the course of two weeks per science:</b></p> <p><b>Lesson 1:</b> Each subject teacher to provide a live lesson via zoom as per TT for all to attend</p> <p><b>Lesson 2 and 3:</b> Students to use 2 timetabled lessons to complete work set by teacher</p>		

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				<p>Google classrooms for additional resources where needed</p> <p>GCSE pod Bespoke PowerPoint presentations</p> <p>BBC bitesize and learning on BBC2</p> <p>FuseSchool youtube videos</p> <p>PiXL tasks</p> <p>Malmesbury school youtube channel is used for covering Required Practicals</p>	
Year 10	9 / 12 periods over 2 weeks	As per the curriculum map.	<p><b><u>50% real time and 50% independent</u></b></p> <p><b><u>Over the course of two weeks per science:</u></b></p> <p><b><u>Groups T1 – D1:</u></b> 2 live lessons and 2 independent learning lessons per science</p> <p><b><u>Groups D2 – D5:</u></b> 5 live lessons across science (1 – 2 per science) and rest are independent / guided learning</p>	<p>Variety of resources used depending on topic, includes the following:</p> <p>Collins Connect – KS4 textbook, homework quizzes and end of topic tests</p>	<p>Regular homework quizzes via Collins Connect.</p> <p>Kahoot</p> <p>Feedback during live lessons, on written submitted homework on Show My Homework and whole class feedback.</p>
Topic/ Unit:	<p>Biology: Chapter 5 Co ordination and control</p> <p>Chemistry: Chapter 3: Quantitative chemistry</p> <p>Physics: Chapter 2: Electricity</p>				

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				<p>Oak National Academy lessons</p> <p>Google classrooms for additional resources where needed</p> <p>GCSE pod</p> <p>Bespoke PowerPoint presentations</p> <p>BBC bitesize and learning on BBC2</p> <p>FuseSchool youtube videos</p> <p>PIXL tasks</p> <p>Malmesbury school youtube channel is used for covering Required Practicals</p>	
Year 11	9/12 lessons a fortnight	As per curriculum map	<b><u>50% real time and 50% independent</u></b>	Variety of resources used depending on topic, includes the following:	Regular homework quizzes via Collins Connect.
Topic/ Unit:	Biology: Chapter 7: Variation and Evolution		<p><b><u>Over the course of two weeks per science:</u></b></p> <p><b><u>Groups T1 – D1:</u></b> 2 live lessons and 2 independent learning lessons per science</p>	<p>Collins Connect – KS4 textbook,</p>	Kahoot

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	<p>Chemistry: Chapter 7: Organic chemistry</p> <p>Physics: Chapter 7: Electromagnetism</p>		<p><b>Groups D2 – D5:</b> 5 live lessons across science (1 – 2 per science) and rest are independent / guided learning</p>	<p>homework quizzes and end of topic tests</p> <p>Oak National Academy lessons</p> <p>Google classrooms for additional resources where needed</p> <p>GCSE pod</p> <p>Bespoke PowerPoint presentations</p> <p>BBC bitesize and learning on BBC2</p> <p>FuseSchool youtube videos</p> <p>PIXL tasks</p> <p>Malmesbury school youtube channel is used for covering Required Practicals</p>	<p>Feedback during live lessons, on written submitted homework on Show My Homework and whole class feedback.</p>
Year 12	12 lessons per fortnight	As per curriculum map	<b><u>50% real time and 50% independent</u></b>	Variety of resources used depending on	Past Paper Exam questions & Text Book Questions based on topic
Topic/ Unit:	Biology:				

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	<p>2.2 Biological molecules 2.3 Nucleic acids 2.4 Enzymes 2.6 Cell division 4.1 Communicable diseases</p> <p>Chemistry: 4.2 Alcohols haloalkanes and analysis 3.1.9/10 Group 2 and 7 3.2 Physical chemistry</p> <p>Physics: Module 4 Electricity Waves &amp; Photons</p>		<p><b>Biology:</b> 6 live lessons and 6 independent learning lessons split between 3 teachers</p> <p><b>Physics:</b> 6 live lessons and 6 independent learning lessons</p>	<p>topic, includes the following:</p> <p>Bespoke PowerPoint presentations</p> <p>Zig Zag Resources</p> <p>OCR A Level Texts</p> <p>CGP Workbooks</p> <p>YouTube Videos</p> <p>Videos in Science Library on Z Drive</p> <p>Pre-reading and revision notes by students expected</p> <p>BioRach Youtube channel</p> <p>Homework books</p>	<p>Homework books</p> <p>Feedback: During live lessons, on written submitted homework on Show My Homework and whole class feedback</p>
Year 13	10 lessons per fortnight	As per curriculum map	<b>50% real time and 50% independent</b>	Variety of resources used depending on topic, includes the following:	Past Paper Exam questions & Text Book Questions based on topic
Topic/ Unit:	<p>Biology: 5.4 Hormonal communication 5.6 Photosynthesis 5.5 Plant and animal responses 5.7 Respiration</p>		<p><b>Biology:</b> 5 live lessons and 5 independent learning lessons split between 2 teachers</p> <p><b>Physics:</b> 5 live lessons and 5 independent learning lessons</p>	<p>following:</p> <p>Bespoke PowerPoint presentations</p>	<p>Feedback: During live lessons, on written submitted homework on Show My Homework and whole class feedback</p>

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	<p>Chemistry: 5.3 Transition metals 6.2 Nitrogen compounds, polymers and synthesis</p> <p>Physics: Module 6 Capacitance, Electric Fields, Electromagnetism &amp; Medical Physics</p>			<p>Zig Zag Resources</p> <p>OCR A Level Texts</p> <p>CGP Workbooks</p> <p>YouTube Videos</p> <p>Videos in Science Library on Z Drive</p>	
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