

Curriculum Area Recovery Addendum

Rationale

Due to the disruption caused by the COVID-19 Pandemic, a large part of the school year, including some valuable learning time, has had to be delivered through remote learning practices. This is time that needs to be caught-up and this document will outline the process the curriculum team will take in order to ensure students are caught up by September 2021, or earlier if in an examination year.

Curriculum Area: Science

WHAT HAVE THE STUDENTS MISSED DURING THE SCHOOL CLOSURE PERIOD?	
Year Group	Summary of what has been missed
7	Content planned on Topics B3, C3 and P3 has been missed. Students have missed the deepening of their KS2 knowledge on Skeleton, Respiration, States of Matter, Pressure and Non-Contact Forces.
8	Content planned on Topics B6, C6 and P6 has been missed. Students have missed the deepening of their KS2 knowledge on Health, Atmosphere and Global Warming, The Rock Cycle, Light Waves and Energy Transfer.
9	Combined Science: content planned on Topics B2, B3, C2, C3 and P2 has been delivered through distance learning. Students have missed in-class meaningful practice of content, consolidation activities, revision and retrieval activities and assessment opportunities. Completion of Required Practicals was also not possible.
	Separate Sciences: content planned on Topics B4, C3, P3 and P4 has been delivered through distance learning. Students have missed in-class meaningful practice of content, consolidation activities, revision and retrieval activities and assessment opportunities. Completion of Required Practicals was also not possible. Content on planned Topics C4 and C5 was not delivered.

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10	<p><u>Combined Science</u>: content planned on Topics B5, B7, C3, C8 has been delivered through distance learning. Students have missed in-class meaningful practice of content, consolidation, revision and retrieval activities and assessment opportunities. Completion of Required Practicals was also not possible.</p> <p><u>Separate Sciences</u>: content planned on Topics B7, C8, C9 and P7 has been delivered through distance learning. Students have missed in-class meaningful practice of content, consolidation, revision and retrieval activities and assessment opportunities. Completion of Required Practicals was also not possible.</p>
11	N/A
12	<p><u>A-level Biology</u>: part of the content planned on 'Exchange surfaces' and 'Transport in 'Plants' has been delivered through distance learning, as well as content planned on 'Biodiversity', 'Classification and Evolution', and 'Communicable diseases and the Immune System'. Students have missed in-class meaningful practice of content, consolidation, revision and retrieval activities and assessment opportunities. Completion of Practical Endorsements was also not possible.</p>
13	N/A

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WHAT ARE YOUR PLANS ON HOW THEY WILL CATCH UP ON THE MISSED WORK?	
Year Group	Summary of how students will catch up in your area
7	<p>A Recovery Curriculum will be produced and delivered in order to teach the threshold concepts that were missed due to school closure.</p> <p>In the referred Recovery Curriculum, metacognition tasks will be included in order to help students understand how they learn and develop schema to independently plan, produce and evaluate their work. This is an important step to succeed in the classroom, but also when learning remotely in the eventuality of a new lockdown, or when completing Homelearning activities through Google Classroom.</p> <p>Retrieval and review tasks will be done every lesson as a starter.</p> <p>During the Winter Term in-class assessment will be completed on a regular basis and any gaps detected will guide teachers towards content that needs to be reviewed and re-assessed.</p> <p>Students continuing to evidence gaps after recovery curriculum delivered will be given support/intervention as needed.</p>
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	<p>During the Winter Term in-class assessment tasks will be completed on a regular basis and any gaps detected will guide teachers towards content that needs to be reviewed and re-assessed.</p> <p>Students continuing to evidence gaps after recovery curriculum delivered will be given support/intervention as needed.</p>
9	<p>Students will be asked to complete a Google Quiz regarding the content taught during the school closure.</p> <p>From the responses to the questionnaires, a GAP analysis will take place to highlight the areas where students reveal gaps.</p> <p>Students will also be asked to RAG the specifications to give their teachers an idea of where they think their gaps are.</p> <p>A Recovery Curriculum will be produced and delivered in order to teach the threshold concepts that should have been learnt in 2019-2020, and close existent gaps.</p> <p>In the referred Recovery Curriculum, metacognition tasks will be included in order to help students understand how they learn and develop schema to independently plan, produce and evaluate their work. This is an important step to succeed in the classroom, but also when learning remotely in the eventuality of a new lockdown or when completing Homelearning activities through Google Classroom.</p> <p>Retrieval and review tasks will be done every lesson as a starter.</p> <p>The Recovery Curriculum will also include the completion of any Required Practicals missed whenever possible. This will take place, depending on possibilities, by students doing the tasks themselves, or observing a demonstration done by their teacher, as the Exam Board allows for this situation.</p> <p>During the Winter Term in-class assessment will be completed on a regular basis and any gaps detected will guide teachers towards content that needs to be reviewed and re-assessed.</p>

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	<p>By the end of the Winter Term, the Google Quizzes done at the beginning of the school year will be repeated and a new GAP analysis will take place. Hopefully most students will have embedded the threshold concepts needed to progress further.</p> <p>Students continuing to evidence gaps after recovery curriculum delivered will be given support/intervention as needed.</p>
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11	N/A
12	<p>Students will be asked to RAG the specifications to give their teachers an idea of where they think their gaps are. A Recovery Curriculum will be produced and delivered in order to teach the threshold concepts that should have been learnt in 2019-2020, and close existent gaps.</p> <p>The Recovery Curriculum will also include the completion of any Practical Endorsements missed.</p> <p>Retrieval and review tasks will be done every lesson as a starter.</p> <p>During the Winter Term in-class assessment will be completed on a regular basis and any gaps detected will guide teachers towards content that needs to be reviewed and re-assessed. Students continuing to evidence gaps after recovery curriculum delivered will be given support/intervention as needed.</p> <p>In addition to this, students will have their first Trial Examinations. The results obtained will be essential to guide the department in planning further action.</p>
13	N/A

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HOW WILL YOU KNOW WHERE INDIVIDUAL STUDENTS ARE IN RELATION TO THEIR LEARNING DURING SCHOOL CLOSURE?

At KS3, engagement trackers and work produced during the lockdown will be used for an initial identification of students that might evidence gaps in their science knowledge and skills.

At KS4, engagement trackers and work produced during the lockdown will be used for an initial identification of students that might evidence gaps in their science knowledge and skills, alongside the Specification RAG activity and the Google quizzes to be completed in September.

At KS5, engagement trackers and work produced during the lockdown will be used for an initial identification of students that might evidence gaps in their science knowledge and skills, alongside the Specification RAG activity and quality of Summer Homelearning work.

FOR THOSE STUDENTS WHO HAVE MADE EXCELLENT PROGRESS DURING THE SCHOOL CLOSURE PERIOD, HOW WILL YOU ENSURE THEY ARE NOT HELD BACK?

During the delivery of the Recovery Curriculum, Extended Learning and Challenge Work will be provided for those students who have been incredibly engaged during the school closure period. At KS4 and KS5 in particular, students will be also asked to complete exam questions from ExamPro or Past Papers. Flipped Learning activities can also be developed by the students who evidence embedding of the threshold content needed to proceed to the new topics of learning.

If, before the end of the Winter Term, students learn the threshold concepts for the topics missed and/or taught during the school closures, new topics can start being taught.

From January, all students will hopefully be taught our 'normal' Curriculum, although those still revealing gaps will be given extra support/intervention.