

Summer Bridging Work: Biology Y12 → Y13

Introduction

In the last academic year, you have studied Topic 1 to Topic 5 and Topic 10. The concepts in these topics underpin the whole of Biology: an excellent understanding of these topics is essential to guarantee success at A-level. To ensure you have an excellent understanding of the concepts covered in Topics 1 to 5, please complete the following tasks:

Compulsory Task 1 (all students must complete this)

1. You should already have your own summarised revision notes on Topics 1 to 4. Catch up if you haven't. Create up to date summarised revision notes on Topic 5 and Topic 10 in your notebook for summarised notes.
2. You should have already completed the exam style questions for all of Topic 1 to 4. Catch up if you haven't. Complete all the Exam Style Questions for Topic 5 from the Biology A-Level Biology B Book 2.

Bring this in to your FIRST Biology Lesson back (this could be the first day of school).

Compulsory Task 2 (all students must complete this)

Revision Notes and Exam Question Booklets

- 1. Use the Topic revision notes provided to review and memorise all the content for Topic 1 to 5. Use the revision notes provided to create question and answer flash cards typed up on the computer for each of the Topics 1 to 5, there should be a minimum of 20 questions and answers for each Topic based on content that is most challenging for you. This could be done on a Word document with questions on one page and the answers on another page. Use this to test yourself on a regular basis.
- 2. Once you have revised the Topic, complete the exam question booklets for each of the Topics 1 to 5. All questions should be attempted without notes. Please revise the topic first, then complete the exam questions in exam conditions and then use a different coloured pen to add or research anything you weren't too sure about using the revision notes or textbook.

Bring this in to your FIRST Biology Lesson back (this could be the first day of school).

Compulsory Task 3 (all students must complete this)

Make sure your Biology Folders are up to date and organised for Topic 1 to 5 and 10. This should include all question and answers to all textbook questions, exam style questions, class/school closure notes, and exam questions and past papers and ordered chronologically (same order as textbook).

All pages should be labelled with the Date, Title and lesson code from the textbook and should follow the same order as the textbook.

Summarised revision notes should be completed in a separate notebook. Please make sure these are up to date and contain all the essential information. Again, all pages to be labelled with the date, title and lesson code from the textbook. Please make sure your summarised notes are completed using the main textbook.

Keep reviewing summarised revision notes until you can memorise the detail of the content without looking.

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4 Methods of Retrieval Practice

@ImpactWales

Before you start put away all your books & classroom materials.

Retrieval Practice Examples

- * Exit Tickets
- * Starter quizzes
- * Multiple choice quizzes
- * Short answer tests
- * Free write
- * Think, pair, share
- * Ranking & sorting
- * Challenge grids

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| <h3 style="margin: 0;">BRAIN DUMP</h3> <p>Write, draw a picture, create a mind-map on everything you know about a topic.</p> <div style="display: flex; align-items: center;"> <div> <p>Give yourself a time limit, say 3 minutes, then have a look at your books & add a few things you forgot.</p> </div> </div> | <h3 style="margin: 0;">QUIZZING</h3> <p>Create practice questions on a topic. Swap your questions with a partner & answer.</p> <p>Question - What is a metaphor?</p> <ul style="list-style-type: none"> <input type="checkbox"/> A comparison using 'like, as, than'. <input type="checkbox"/> A comparison where one thing is another. <input type="checkbox"/> A comparison with a human attribute. | | | | | | |
| <h3 style="margin: 0;">FLASHCARDS</h3> <p>Create your own flashcards, question on one side answer on the other. Can you make links between the cards?</p> <div style="display: flex; align-items: center;"> <div> <p>You need to repeat the Q&A process for flashcards you fail on more frequently & less frequently for those you answer correctly</p> </div> </div> | <h3 style="margin: 0;">KNOWLEDGE ORGANISERS</h3> <p>Complete a knowledge organiser template for key information about a topic.</p> <div style="display: flex; align-items: center;"> <table border="1" style="width: 150px; height: 100px; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%;">Definition</td> <td style="width: 50%;">Draw a picture</td> </tr> <tr> <td colspan="2" style="height: 30px;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto;"></div> <p style="font-size: x-small; margin: 0;">Topic</p> </td> </tr> <tr> <td>Examples</td> <td>Non-examples</td> </tr> </table> <div style="margin-left: 20px; font-size: x-small;"> <p>You can use knowledge organisers to learn new vocab & make links in between subjects or ideas.</p> </div> </div> | Definition | Draw a picture | <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto;"></div> <p style="font-size: x-small; margin: 0;">Topic</p> | | Examples | Non-examples |
| Definition | Draw a picture | | | | | | |
| <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto;"></div> <p style="font-size: x-small; margin: 0;">Topic</p> | | | | | | | |
| Examples | Non-examples | | | | | | |

After you have retrieved as much as you can go back to your books & check what you've missed. Next time focus on that missing information

Bring this in to your FIRST Biology Lesson back (this could be the first day of school).

Assessment

Please bring in ALL completed work to your FIRST Biology lesson in September. There will be an Assessment with All Topics covered so far including Topics 1-4, Topic 5 and Topic 10 in the first few days so be prepared (this could be in the FIRST lesson back).