

Biology Bridging Menu

You are about to start an exciting journey into the world of Biology, good luck!











Remember

- Choose what modules you do and when, but work through them consistently – we will be checking in on your progress regularly. Different tasks will take you varying amounts of time, but on average you should aim to do one or two per week
- All green tasks are core modules, they are compulsory and must be completed by **10 July**
- 🌶️ The red hot chili indicates that the task is more challenging than the others
- Numbers eg **(1)** correspond to how you should evidence the module which can be found in the slides following the menu. These must be saved in your Unifrog locker as you work. They can be saved within this powerpoint or as separate documents clearly labelled with the subject

Biology Bridging Portfolio

(Green modules are core (compulsory) modules ,  indicates the most challenging modules)

Reviews of your work should be saved in your Subject Lockers on Unifrog

Read 	Watch 	Listen 	Visit  (virtually or physically at a later date)	Do 
Buy the CGP revision guide 'Head Start to A-level Biology' to help you to build on your GCSE Biology knowledge. You can buy the revision guide book from cgpbooks.co.uk (5)	Watch a TED talk <ul style="list-style-type: none"> • A global pandemic calls for global solutions • When is a pandemic really over? • How does the immune system work? • Sex determination: more complicated than you think • What if there were 1 trillion more trees? (2) 	Thisweekinviroogy How are the tests for vaccines for CV-19 done? (1)	The Natural History Museum http://www.nhm.ac.uk (4)	Active Review of Biological concepts Which were your weakest GCSE Biology areas? Review these topics areas using: <ul style="list-style-type: none"> • Cognito • Revisely Further develop your understanding of some concepts to prepare you for A-level Biology. Snap revise CrashCourseBiology (5)
Want to read a Biology classic book that has influenced worldwide understanding of Biology? Here is a list of suggested books to read: <ul style="list-style-type: none"> • Richard Dawkins: The Selfish Gene • James Watson: The Double Helix: Personal Account of the Discovery of the Structure of DNA • Charles Darwin: The origin of species • Bill Bryson: A Short History of Nearly Everything (1)  	Our Planet (2019) <i>The series addresses issues of conservation while featuring these disparate animals in their respective home regions, and has been noted for its greater focus on humans' impact on the environment than traditional nature documentaries.</i> (1)	Level Up Human Series 10 episode 2 (1)	The Royal Society Lectures on You and the Planet (4) 	10% of your A-level Biology exam uses higher tier GCSE Maths skills. Try the 'Maths For A Level Biology Questions and Tips' from Maths made easy (6)
Visit the Edexcel site below and download a copy of the specification for A level Biology A Specification (9)	The C word (2016) <i>The C Word is a 2015 documentary film about the effort to prevent cancer, particularly the research of Dr. David Servan-Schreiber, and addresses the failure of Western medicine's approach to cancer.</i> (1) 	Radiolab podcast relative genius (1)	A university open day (or virtual tour) of a university you are interested in. Here is the Oxford Biology Department. Oxford Biology (3)	MOOCs Shortonlinecourses Search through the MOOCs on using the filter 'Biology' and chose one that particularly interests you. (7) 
Look at the BBC News page for Science and the Environment BBC news (1)	The Game Changers (2018) <i>This documentary looks at viewpoints and evidence to promote a vegan diet but how reliable is it?</i> (1)	Thisweekinevolution (1)	Science Museum (4) (virtual tour here)	BiologyOlympiadPastpapers An annual competition seeking out the best Biologists across the country. Attempt a past paper and mark it. (8)
Take a look at the Biological Science Review periodical via the website: Biological Sciences Review <ul style="list-style-type: none"> • Pick one of the articles to read from one of the issues of the Biological Sciences Review periodical. (1) 	Why are we getting so fat? BBC Horizon (2016) <i>Dr Giles Yeo investigates obesity in the UK. Many people believe that if people could just eat less, the obesity problem would be solved, but this may be harder than it</i>	Thenaturalselectionpodcast (1) 	Visit London Zoo ZSL-virtual-tour (4)	Sign yourself up to Seneca Learning if you don't have an account already and find the Biology Edexcel A A-level course. Have a look through the types of topics that we will be studying. (5)

(1) – Book/Article/Journal/Podcast/Film Review

Review by: _____
Title: _____
Author: _____
Review of (please circle)
Book Article Journal Podcast Film Documentary

Would you/would you not recommend it? Why?
Rating:



What was it about?

What did you find particularly interesting/inspiring/shocking? Has this changed your opinion?

How does it link to this subject and why is it important?

What would you like to learn more about?

(2) – Questions on TED talks

1. What is GCSE Biology content does this relate to?
2. What are the key Biological concepts discussed?
3. What can we learn from it?
4. Are you going to change anything as a result of watching the talk?



Save your answers in the PowerPoint and save in your locker clearly labelled with the subject 'Biology'

(3) – Questions on visit to a university open day (or the Oxford Biology Department)

1. What is the first year like on the BSc Biology Programme?
2. What can I expect over the three/four years?
3. How important is maths for a Biology Degree?
4. What job opportunities does a degree in Biology offer?
5. What percentage of the course is practical?
6. What is unique about Oxford (or the university you visit)?
7. What do Oxford (or the university you visit) look for in applicants?
8. What are the alternative courses you can do with a Biology A-level?



Save your answers in the PowerPoint and save in your locker clearly labelled with the subject 'Biology'

(4) – Review of Visit

Review by: _____

Location: _____

Would you/would you not recommend visiting? Why?

Rating:



What does the location specialise in? Why is it well known?

Did you find out anything new that you had previously not known?

What was the most fascinating section of the museum/laboratory?

What would you like to learn more about?

(5) – Review of GCSE content

Use your **GCSE Biology Personal Learning Checklists** to review GCSE content. This is content you must be familiar with when you start as it will not be recapped.

- Create flash cards for these topics to help you remember.
- Make mind maps to show how your knowledge across each module of the GCSE links together
- Use [revisely](#) or [cognito](#)

*Use the following YouTube accounts to further develop your understanding to A-level standard:

- [Snaprevise](#)
- [CrashCourseBiology](#)

Use the [Specification](#) to help you to establish what you need to understand. Suggested topics to focus on for the first term back include:

- Carbohydrates
- Proteins and enzymes
- The cardiac cycle
- Non-communicable diseases such as obesity
- Cell membrane and transport
- DNA, RNA and protein synthesis

Your notes should be completed and saved in your locker for marking.

Take a photo of your resources and answers to worksheets and save in your locker clearly labelled with the subject 'Biology'

(6) – Review GCSE Maths Content

Try the ‘Maths For A Level Biology Questions and Tips’ from [Maths made easy](#)

The booklet here should be completed and saved in your locker and marked.

Maths for A Level Biology

If you are looking for A level Biology maths questions or you want to improve your maths skills for A Level Biology then you are on the right page. See our top tips and maths questions for A level Biology worksheet to help you revise. You can also access our A Level Biology maths exam questions which cover everything that is in the AQA, OCR and Edexcel specifications to ensure that you get to practise all types of A Level Biology maths questions.

If you found this difficult you could buy [CGP's A-level-biology-essential-maths-skills](#) to help you before and during your A-level Biology course.

Save the booklet in your locker clearly labelled with the subject ‘Biology’

(7) – MOOCs

These are massive open online courses that you can take whilst you are at home. Most are completely free to complete with a small fee for the certificate (but you do not need to print this- you can screen shot the completed stage).

To evidence this you can

- Save any notes you take
- Take and save a screenshot of completed modules or the completed course



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Save it in your locker as part of this PowerPoint or if there is a downloadable certificate save as 'Biology MOOC' in your locker

(8) – **Biology Olympiad Challenges**

These challenges will stretch your Biology knowledge and make you think outside the box. Try some of the past paper questions here.

- [BiologyOlympiadPastpapers](#)

An annual competition seeking out the best biologists across the country.

Save your work/take a photo of your work and upload to your locker.



The screenshot shows the website for UK Biology Competitions, managed by the Royal Society of Biology. The page is titled "Syllabus and past papers". On the left, there is a navigation menu with the following items: Home, International Biology Olympiad, UK Biology Competitions, British Biology Olympiad (with sub-links for BBO and IBO 2019 through 2013, Syllabus and past papers, and Rules), and Intermediate Biology Olympiad. The main content area includes the following text:

The British Biology Olympiad (BBO) complies with the **rules** of the International Biology Olympiad (IBO), the balance of the various topics, the style of the papers and the questions conform to the IBO syllabus which is very broad.

It is clear that most candidates will not have covered all of the syllabus, but no-one is at a disadvantage as this is a similar issue for everyone who enters. Different sections will be covered or omitted according to which UK examination board and options are being studied.

BBO syllabus

BBO sample paper

BBO sample paper answers

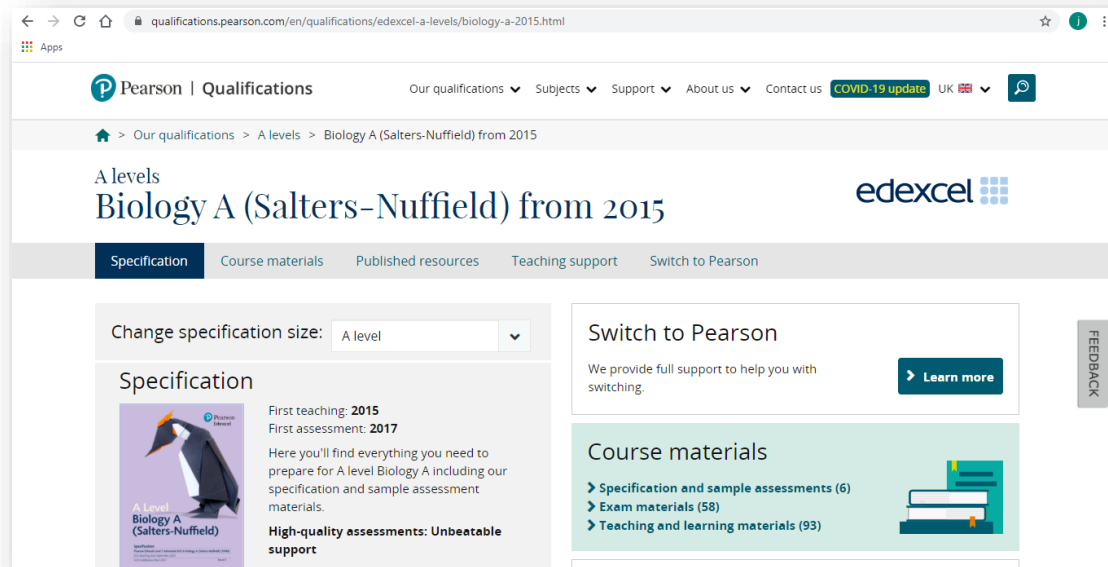
Please note that the BBO is organised by a **committee** of volunteers and not by an examination board.

Save or take photos of your work and save as 'Biology' in your locker

(9) –Specification for A level Biology

1. Download and save the specification
2. Traffic light your understanding of the objectives for year 1 A-level Biology (topics 1, 2, 3 and 4).
 - Red = you've never heard of it
 - Amber = you know some things about it
 - Green = you are confident on this

This should help you with your active review of your biological knowledge.



The screenshot shows the Pearson Qualifications website for A Level Biology A (Salters-Nuffield) from 2015. The page is titled "A levels Biology A (Salters-Nuffield) from 2015" and features the Edexcel logo. The navigation menu includes "Specification", "Course materials", "Published resources", "Teaching support", and "Switch to Pearson". The "Specification" section is highlighted, showing a dropdown menu for "Change specification size:" set to "A level". Below this, there is a "Specification" section with a penguin icon and text: "First teaching: 2015", "First assessment: 2017", "Here you'll find everything you need to prepare for A level Biology A including our specification and sample assessment materials.", and "High-quality assessments: Unbeatable support". To the right, there is a "Switch to Pearson" section with a "Learn more" button. Below that, the "Course materials" section lists: "Specification and sample assessments (6)", "Exam materials (58)", and "Teaching and learning materials (93)". A "FEEDBACK" button is visible on the right side of the page.

Save the specification in your locker clearly labelled with the subject 'Biology'