Year 13 BIOLOGY Revision Timetable - Year 13 Mock Exams wb 5th January 2025

Pupil Name:

We will be asking you to revise different topics and sometimes the associated practical. You SHOULD be making revision notes. Remember good revision involves doing something active, not just passively reading your notes or a website.
There are lots of activities you can do that will help you revise: make summary notes, produce a mind map, revision clock or flashcards, complete the Kerboodle text book practice papers, re-do LC tests from year 1 or do past exam papers.

THE EXAM – You will sit two papers and it will cover content from both year 12 and 13 content (2 hours/2 hours 15 minutes if Mr Giles can fit that in)

- Chapter 2 Basic components of living organisms
- Chapter 3 Biological Molecules and nucleic acids
- Chapter 4 Enzymes
- Chapter 5 Plasma Membranes
- Chapter 6 Cell Division
- Chapter 7 Exchange surfaces and breathing
- Chapter 8 and 9 Transport systems in animals and plants
- Chapter 10 Classification and evolution
- Chapter 11 Biodiversity
- Chapter 12 Communicable diseases
- Chapter 13 Neuronal communication
- Chapter 14 Hormonal communication
- Chapter 15 Homeostasis
- Chapter 17 Energy for Biological processes (photosynthesis)
- Chapter 20 Patterns of inheritance
- Chapter 23 Ecosystems

USEFUL RESOURCES

Teams Revision folder

Useful revision websites:

https://www.ocr.org.uk/qualifications/as-and-a-level/biology-a-h020-h420-from-2015/assessment/ (OCR past papers and mark schemes)
https://www.s-cool.co.uk/a-level/biology (notes and questions by topic)
https://www.brainscape.com/packs/ocr-biology-a-9626225 (flashcard questions + answers)
https://lovebiology.co.uk/quizzes_gce.php (quizzes)
https://quizlet.com/class/1374654/ (flash cards)
https://www.youtube.com/watch?v=QnQe0xW_JY4&list=PL3EED4C1D684D3ADF (short videos covering the whole of the course)
https://www.youtube.com/channel/UCEFS1oWBiWN-6psYhFsQWuA (short videos covering the whole of the course)
https://ankiweb.net/shared/info/2079473521 (flash cards and you can use it to make your own)
https://www.physicsandmathstutor.com/biology-revision/a-level-ocr-a/ (past papers)

Week wb	**What to revise**	**Type of revision notes and testing?**	**Any problems? (questions to ask your teacher?)**
1 3/11/25	Chapter 2 and 5		
2 10/11/25	Chapter 3 and 4		
3 17/11/25	Chapter 6 and 7		
4 24/11/25	Chapter 8 and 9		
5 1/12/25	Chapter 10 , 11 and 15		
6 8/12/22	Chapter 12, 13 and 20		
7 15/12/24	Chapter 14, 17 and 23		
8 and 9 22/12/25 4/1/26	Consolidation – which topics do you need to prioritise		
Each week	Practice papers and required practicals		

REQUIRED PRACTICALS (We haven't done all of them yet)

1. Using a light microscope to study mitosis The examination and drawing of blood cells observed in blood smears Using a light microscope to examine lung tissue
2. Dissection of the mammalian heart The dissection of a stem
3. The calculation of species diversity Measurement of the distribution and abundance of plants in a habitat Investigating a correlation between a named species and a biotic and/or abiotic factor
4. The effect of enzyme concentration on the rate of a reaction The effect of substrate concentration on the rate of an enzyme-controlled reaction Investigating the effect of temperature on amylase activity
5. The effect of temperature on membrane permeability Determining glucose concentration Using a potometer
6. Identification of the amino acids in a protein using paper chromatography Investigation using thin layer chromatography to separate photosynthetic pigments
7. The effect of antibiotics on bacterial growth Dilution plating to determine microbial density in liquid culture Transformation of bacteria with plasmid encoding GFP
8. An investigation into the water potential of potato Investigating osmosis in an artificial cell

Investigating the rate of diffusion through a membrane
9. Qualitative testing for biological molecules – proteins (Biuret test) Qualitative testing for biological molecules – lipids (emulsion test) Qualitative testing for biological molecules – glucose (Benedict's test)
10. Measuring pH change during yoghurt production (still to do)
11. Investigation into the effect of exercise on pulse rate Practical investigation into phototropism (still to do)