NHGS SIXTH FORM

A LEVEL TRANSITION WORK

A level Biology

Specification

AQA GCE Biology
https://filestore.aqa.org.uk/resources/biology/specifications/AQA-7401-7402-SP-2015.PDF

Course Overview

Year 1 Subject Content	Year 2 Subject Content
• Biological molecules • Cells • Organisms exchange substances with their environment • Genetic information, variation and relationships between organisms	• Energy transfers in and between organisms • Organisms respond to changes in their internal and external environments • Genetics, populations, evolution and ecosystems • The control of gene expression

Practical Endorsement
There is no coursework component to the course and 15% of the marks for A-level Biology are based on what you learned in your practicals. You will achieve a qualification following the successful completion of twelve practicals throughout the A level course. This is separate to your Biology examination grade.

Recommended Reading / Revision

AQA Biology Oxford textbook (Toole & Toole) – this book will be issued in school)

CGP A Level Biology Revision
CGP Maths for A Level Biologists

A level biology questions and answers
mathsmadeeasy.co.uk/a-level-biology-revision/exam-questions-topic-aqa/

AQA A2 Biology (New Specification):
https://www.youtube.com/playlist?list=PL41HBQMUThQyQCzIAh1YjP8EUCPwB45DD

AQA AS Biology (New Specification):
https://www.youtube.com/playlist?list=PL41HBQMUThQxmp1dt3aauH6h1D0oeRaO2

Bozeman Biology videos http://www.bozemanscience.com/biology-main-page

Snap Revise - £30 for each year.
https://snaprevise.co.uk/search?qualification=A-level&examboard=AQA

Crash Course on youtube
https://www.youtube.com/playlist?list=PLNQL82WAcoJXP6HP0irylS_E5JhL4ks0f

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Transition work for Biology A level students

1. Define the following;
    a. Atom
    b. Molecule
    c. Element
    d. Compound
    e. Ion
    f. Organic
    g. Inorganic
    h. Macronutrient
    i. Micronutrient
    j. Monomer
    k. Polymer

2. What are the most common elements in living organisms? (I'm looking for 4)

3. What are the roles of the following in cells?
    a. Magnesium
    b. Iron
    c. Phosphate
    d. Calcium
    e. Sodium
    f. Hydrogen

4. Describe
    a. Covalent bonding
    b. Ionic bonding

5. Why is water essential?

6. Water is described as being polar. What does this mean?

7. What is a hydrogen bond?

8. Why is water able to form hydrogen bonds?

9. What is special about the surface tension of water?

10. Why is water a good solvent?

11. What are the thermal properties of water?

12. What is a condensation reaction?

13. What is a hydrolysis reaction?

14. What is polymerisation?

15. What is metabolism?

16. What is a 'mole' and what is a 'molar solution'?