



SUBJECT: Biology IB Higher

HEAD OF DEPARTMENT:

Mrs K Ardley

EXAM BOARD AND SYLLABUS NUMBER:

IBO / QAN: 60131743

SYNOPSIS OF CONTENT:

Core topics studied by both Standard and Higher level students. 1. Cell biology 2. Molecular biology, study of biologically important molecules. 3. Genetics. study of inheritance. 4. Ecology 5. Evolution and biodiversity 6. Human physiology. Additional Higher Level (AHL) topics studied by higher level students only. 7. Nucleic acids (DNA, RNA) 8. Metabolism, cell respiration and photosynthesis. 9. Plant biology. 10. Further genetics and evolution. 11. Animal physiology. Option C Ecology and conservation.

WHY STUDY THIS SUBJECT?

Students develop the ability to; Demonstrate an understanding of biological facts, concepts and terminology. Apply and use biological facts and concepts. Formulate, analyse and evaluate hypotheses, scientific methods, explanations and techniques.

SELF STUDY ADVICE / USEFUL WEBSITES:

<http://www.s-cool.co.uk>
<http://www.biologymad.com>
www.ocr.org.uk
<http://highered.mheducation.com/olc/dl/120060/ravenanimation.html>

HOW IS IT ASSESSED?

3 exams. Paper 1: 1 hr 20%. 40 multiple choice questions on core and AHL topics. Paper 2: 2 hrs 36%. Several short answer questions and 2 extended response questions. Paper 3: 105mins 24%. Section A - Two or three short answer questions based on experimental skills and techniques and analysis and evaluation of unseen data. Section B - Several short answer and extended response questions from option C. Internal assessment of an individual investigation which will involve practical work. 20%.

ADDITIONAL INFORMATION / CAREER OPPORTUNITIES

Students have the opportunity to attend a field course to study ecology. IBH Biology is a base for a university degree in healthcare such as medicine, veterinary or dentistry as well as the biological sciences such as biochemistry, molecular biology or forensic science. It can also complement sports science, psychology and sociology. Career opportunities include; Biological research, medical, environmental, forensics, sports and communication science. Skills such as problem solving can be used in many areas such as law.

SPECIFIC MATRICULATION REQUIREMENTS

Grade 6 in GCSE Biology or grade 66 in GCSE Combined Science: Trilogy, with Grade 5 in GCSE Mathematics