

Biology Accelerator Pack

Introduction

This pack is designed to give you a head start for Biology at AS level. It contains some background information about the course structure which you will find useful, as well as two tasks for you to complete over the summer holidays.

The Biology Course

At Leventhorpe, we follow the OCR A Biology course. The AS component of the course is broken down into 4 units as detailed below:

Module 1: Development of practical skills in biology

Module 2: Foundations in biology

Module 3: Exchange and transport

Module 4: Biodiversity, evolution and disease

Biology staff who could be teaching you

Mr T Xavier - Teacher of Biology / KS3 Coordinator

Mr A Oakley - Teacher of Biology

Miss L Dean - Teacher of Biology / Deputy Head of Science

Mr T Hayward - Teacher of Biology

Mrs C Johnson - Teacher of Biology

Task1

Draw and label an animal and plant cell from memory (think back to your GCSE course!!). Using the internet find out what 'AS level' animal and plant cells looks like. Draw them in the box below and label as fully as possible.

Plant	Animal
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Find out the function of the following organelles:

Organelle	Function
Ribosomes	
Mitochondria	
Lysosomes	
Endoplasmic reticulum	
Chloroplast	
Golgi apparatus	
Nucleus	
Centrioles	
Vacuole	

Task 2

It is important that you have heard and know what the following words mean as they will be used throughout the biology course. Write the definition for each and explain any technical language.

Key word	Definition
Amylose	
Atherosclerosis	
Binary fission	
Bronchioles	
Carbaminohaemoglobin	
Centromere	
Chemotaxis	
Diastole	
Deamination	
Ester bond	
Exocytosis	
Flaccid	
Fibrillation	
Glycosidic bond	

Key word	Definition
Guanine	
Lumen	
Lymphocyte	
Parenchyma	
Pluripotent	
Resolution	
Reduction	
Solute potential	
Sink	
Transcription	
Triglyceride	
Urea	
Vascular tissue	
Villi	
Xerophyte	
Zygote	