

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 in to 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 you will meet

Mr T Xavier - Teacher of Biology / KS3 Coordinator

Mr A Oakley - Teacher of Biology / Head of Lawrence

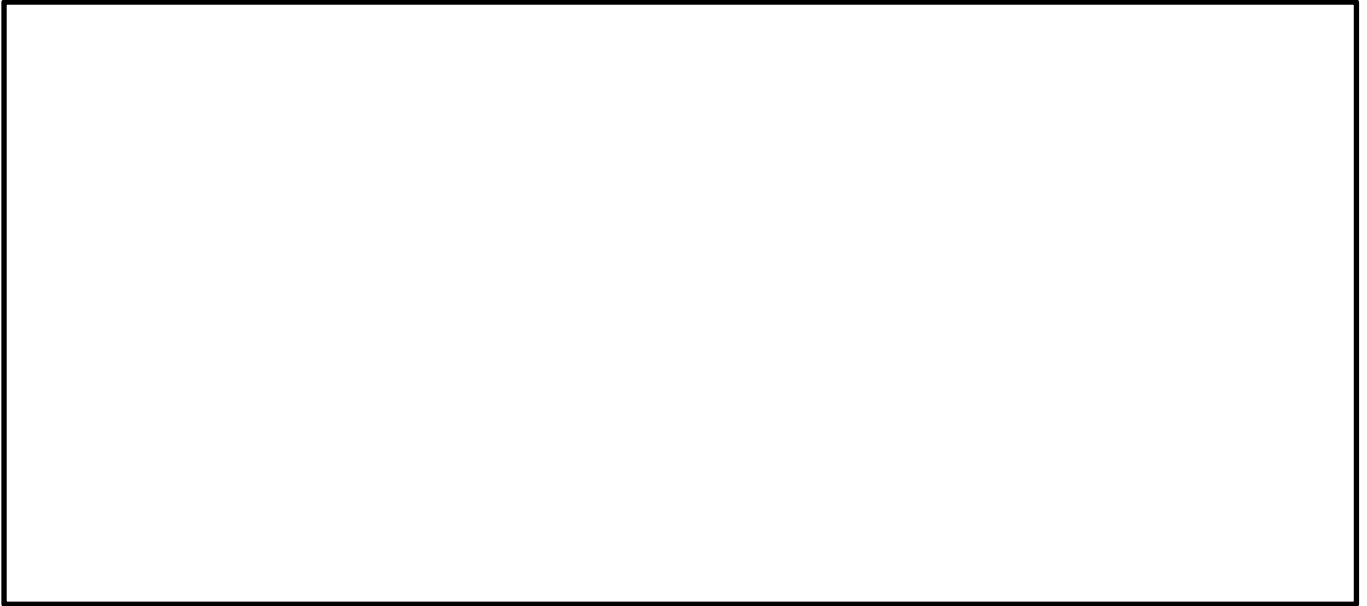
Miss L Dean - Teacher of Biology / Deputy Head of Science

Mrs C Johnson - Teacher of Biology

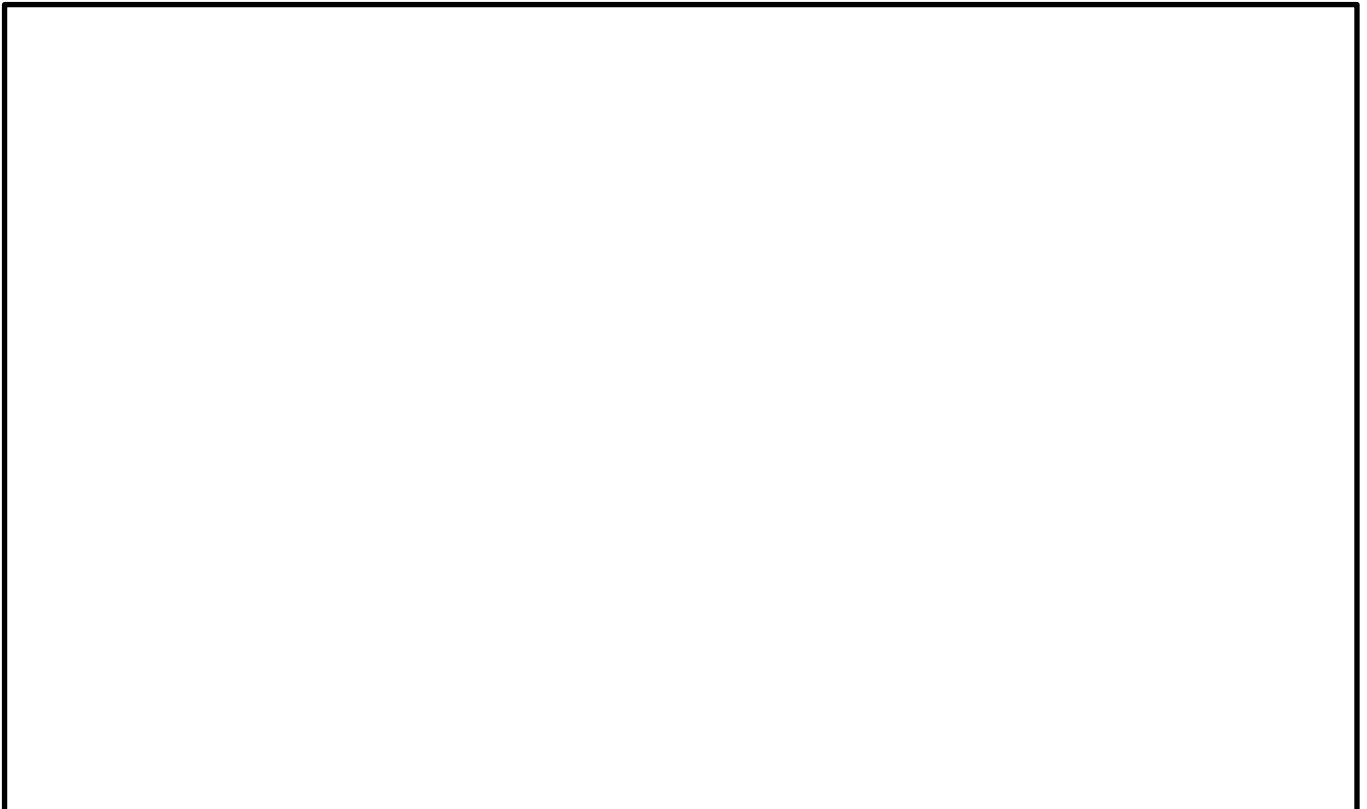
Miss E Ingrouille - Teacher of Biology

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.



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.

Amylose _____

Atherosclerosis _____

Binary fission _____

Bronchioles _____

Carbaminoheamoglobin _____

Centromere _____

Chemotaxis _____

Diastole _____

Deamination _____

Ester bond _____

Exocytosis _____

Flaccid _____

Fibrillation _____

Glycosidic bond _____

Guanine _____

Lumen _____

Lymphocyte _____

Parenchyma _____

Pluripotent _____

Resolution _____

Reduction _____

Solute potential _____

Sink _____

Transcription _____

Triglyceride _____

Urea _____

Vascular tissue _____

Villi _____

Xerophyte _____

Zygote _____