

YEAR 12 BIOLOGY UNIT 3/4 2017

Requirements: Textbook – Heinemann Biology 2 Fifth Edition
Ringbinder with dividers
Plastic pockets
Loose leaf paper
(The text is available on line on Public drive)

Areas of Study:

Unit 3 : How do cells maintain life?

1. How do cellular processes work?
2. How do cells communicate?

Unit 4: How does life change and respond to challenges over time?

1. How are species related?
2. How do humans impact on biological processes?
3. Practical Investigation

Outcomes :

The outcomes are based on the areas of study. For each outcome there are Key Knowledge and Key Skills to be demonstrated. The classwork usually involve exercises from the textbook, practical reports, video notes, class notes and occasionally research work. Satisfactory completion of outcomes is based on School Assessed Coursework (SAC) assessment and completion of other work set.

Assessment Tasks :

Unit 3 : School Assessed Coursework **16%**
(2 Practical activities, 2 school tasks)

Unit 4 : Exam on Units 3 and 4 **60%**
School Assessed Coursework **24%**
(2 reports, 1 scientific poster)

A GUIDE TO UNIT 3 AND 4 SAC

Unit 3

Enzyme SAC
Cellular Processes SAC
Homeostasis SAC
Immunity SAC

Unit 4

Evolutionary Change SAC
DNA Manipulation SAC
Scientific Poster

Holiday Homework: Due first period of biology in 2017

Complete:

- Key Questions and Chapter Review for chapters 1, 2 and 3
- TSSM Teach Yourself Topic 1: Experimental Design and Data interpretation
- TSSM Teach Yourself Topic 4: Plasma membranes and Material Transport
- Biology Website Questions: Material Transport Worksheet