



The Mall School

Curriculum Guide

Science – Summer Term

Year 8

Teachers:	Miss Carys Smith
Lessons:	8 Set 2- 3 x 80min, 8 Set 1- 2 x 80min and 1 x 70 min, and 8S- 1 x 80min and 2 x 60min.
Homework:	2 x 30min (8 Set 2 Tuesday & Thursday, 8 Set 1 Wednesday & Friday, and 8S Tuesday and Friday)

Introduction:

The science syllabus is split into biology, chemistry and physics. The 13+ Common Entrance syllabus is covered over the course of Years 7 and 8, although pupils are expected to remember the work covered in previous years from the 11+ Common Entrance syllabus. The Common Entrance examinations in science are made up of three papers: one biology, one chemistry and one physics. Each paper is 40 minutes long. At least 25% of the paper will be testing how science works. The scholarship science examination is 90 minutes long and divided into three sections: A (biology), B (chemistry) and C (physics). Each section is worth 25 marks, but the number of questions will vary. There will be an assessment after each unit studied in Year 8, and the boys will record their results on their tracking sheet. The tracking sheet can be used for the boys to check their progress throughout the year and to identify areas, which they need to spend more time revising before their examinations.

Key Objectives:

- Know the word equation for photosynthesis.
- Understand how and where photosynthesis takes place.
- Know how to test for the presence of starch in a leaf.
- Understand transpiration.
- Understand the importance of photosynthesis in the carbon cycle.
- Understand the human effects on the carbon cycle.
- Prepare for the Common Entrance and Scholarship Science exams.

The topic areas to be covered for the Summer Term are as follows:

- Photosynthesis
- Exam preparation

Resources:

All boys must bring the following equipment to all lessons:
Pen (black or blue), pencil, rubber, pencil sharpener, 30cm ruler, calculator, colouring pencils, and a glue stick.

All boys have been issued with the textbook 'So you really want to learn Science' by W. R. Pickering – ISEB course book 2, designed to go with the CE syllabus, and CGP's 'The 13+ Science Study Book for the Common Entrance Exams'.