



The Mall School

Curriculum Guide

Science – Summer Term

Year 7

Teachers:	Miss Carys Smith
Lessons:	7(1) 1 x 40min, 1 x 70min, and 1 x 80min. 7(2) 1 x 40min, 1 x 60min, and 1 x 70min.
Homework:	1 x 30min (7(1) Tuesday and 7(2) Monday)

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 7, 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 summer examination.

Key Objectives:

- Revise types of chemical reactions.
- Revise Air and Water.
- Understand how to use a microscope and preparation of wet slides.
- Know cells are the basic units of life.
- Revise animal and plant cell structure.
- Know the universal nature of DNA.
- Revise tissues, organs and systems.
- Understand the differences between the five kingdoms.
- Know the classification hierarchy.
- Revise vertebrates, invertebrates and arthropods.
- Understand a pond ecosystem.
- Revise food chains and webs.
- Know different sampling methods.

These key objectives will be covered alongside others in the units of work in each term. The topic areas to be covered for the Summer Term are as follows:

- Chemical Reactions
- Air and Water
- Cells, tissues, organs and systems
- Classification
- Living things in their environment

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 Biology, Physics and Chemistry text books produced by ISEB (Ron Pickering) designed to go with the CE syllabus.