



The Mall School

Curriculum Guide

Science – Summer Term

Year 6

Teachers: Miss Carys Smith and Mrs Ann-Maria Upton
Lessons: 6L 1 x 40min and 2 x 60min, and 6G 1 x 35min, 1 x 60min and 1 x 70min
Homework: 1 x 30min (6L Thursday and 6G Friday)

Introduction:

The science syllabus is split into biology, chemistry and physics. Over the course of Year 6 the boys will learn about materials and their properties, focusing on the difference between metals and non-metals, chemical reactions, acids and alkalis, Earth in space, forces and pressure, followed by classification of living things and interactions in their environment. There will be an assessment after each unit studied, 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. Whilst learning about each topic the boys will be given many chances to carry out practical investigative work in order to develop their skills in *How science works*, which is a key component of the course examined in the 11+ and the 13+ Common Entrance examinations.

Key Objectives:

- Appreciate the variety of life.
- Understand how and why living things are classified.
- Know how to use and write keys to identify organisms.
- Understand how living things are named.
- Know how to use ecological terms correctly.
- Understand the pond as an ecosystem.
- Understand food chains and pyramids of number.
- Understand competition and predator–prey relationships.

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:

- Classification and Keys
- 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 textbooks *Biology First*, *Chemistry First* and *Physics First* by George Bethel and David Coppock, Oxford University Press.