**St Mary’s C of E Primary School, Writhlington**

*‘Inspiring Learning Together’*

**Scheme of Work + Knowlegde Organiser**

**Oracy:**

Stem sentences within each lesson to support and aid predictions, explanations and conclusions.

Presentation of findings to class.

**Key Vocabulary:**

|  |  |
| --- | --- |
| **Spelling** | **Definition/Sentence** |
| **buoyancy** | a force on an object making that object rise or move upward |
| **weight** | the measure of the force of gravity on an object |
| **up thrust** | the upward force that a liquid exerts on a body floating in it |
| **surface area** | total exposed area inside a given boundary |
| **fair test** | a test which controls all but one variable when attempting to answer a scientific question |
| **prediction** | say or estimate what will happen in the future  |

**Working Scientifically:**

Lesson 1: Set up simple practical enquiries/comparative tests, record findings in tables.

Lesson 2: Making careful observations, recording findings and drawing conclusions.

Lesson 3: Set up simple practical enquiry, record results using written evaluations and conclusions.

Lesson 4: Comparative testing, recording results via a bar graph and create conclusions.

**The Learning Journey:**

**Why do some objects float, and others sink?**

Children will investigate the buoyancy of different objects.

**Can I measure my heartrate?**

Children will measure their heart rate and learn how to present their findings in different ways.

**Can you drop an egg without breaking it?**

Children will experiment wrapping eggs in different materials in order to investigate whether the egg will break.

**Which liquids melt the fastest?**

Children will predict and experiment which liquids will melt the fastest.

**Knowledge outcomes:**Ask questions and answer using different scientific enquiries

Complete practical enquiries, comparative and fair tests

Make observations using a range of equipment

Gather and present data in a range of different ways

Report on findings from enquiries

Draw simple conclusions, identifying differences and similarities



**We Are Scientists!**