**Puddletown First School**

**KS2 Science (Y4) – Achieving Mastery**

At Puddletown First School we understand the National Curriculum to be a mastery curriculum. We believe to show mastery of the Geography curriculum children need to be able to demonstrate key skills or concepts independently. The principle behind achieving mastery in the children being able to demonstrate an ability *‘to think like a scientist’*

**Curriculum intent:**

* To develop scientific knowledge and understanding through enquiry and observation
* To carry out a scientific enquiry answering a question about the world around them employing scientific methods and processes
* Show an understanding of how some science is used in the world they live

**Working scientifically**

* Ask relevant questions using different types of enquiry to solve them
* Set up simple investigations that are fair tests requiring systematic and careful observations and measurements. Presenting their findings in a variety of ways
* Use the results to draw simple conclusions and predictions as evidence when answering an enquiry or producing a report (written or oral)

**Living things**

* To describe the digestive process and role of teeth
* To be able to sort and group living things in a variety of ways using classification keys to identify them
* To construct and interpret a food chain
* Recognise that an environment can be changed positively and negatively

**Materials**

* To sort and compare materials according to whether they are gases, liquids or solids
* Observe changes of state
* Explain and understand the water cycle, evaporation and condensation

**Sound**

* Understand that sound is caused by vibration
* Understand that the speed and strength of vibration affects pitch and volume

**Forces**

* Construct a simple electrical circuit, naming the components
* Understand the role od a switch in a circuit
* Recognise some common conductors and insulators

**Key vocabulary**