

## **Plato's Pond aligns with the following National Standards**

(For supplementing classroom learning Year 6.)

*US National Standards are listed in the back of this packet.*

### **National Curriculum Science Key Stage 2**

#### **Sc1 Scientific Enquiry:**

##### **Knowledge, skills and understanding**

##### **Ideas and evidence in science**

1. Pupils should be taught:

- b. that it is important to test ideas using evidence from observation and measurement.

##### **Investigative skills**

2. Pupils should be taught to:

##### **Obtaining and presenting evidence**

- f. make systematic observations and measurements, including the use of ICT for data logging
- g. check observations and measurements by repeating them where appropriate

##### **Considering evidence and evaluating**

- i. make comparisons and identify simple patterns or associations in their own observations and measurements or other data
- j. use observations, measurements or other data to draw conclusions
- k. decide whether these conclusions agree with any prediction made and/or whether they enable further predictions to be made
- l. use their scientific knowledge and understanding to explain observations, measurements or other data or conclusions

#### **Sc2 Life processes and living things:**

##### **Adaptation**

5. Pupils should be taught:

- b. about the different plants and animals found in different habitats
- c. how animals and plants in two different habitats are suited to their environment

#### **Sc3 Materials and their properties:**

##### **Changing materials**

2. Pupils should be taught:

- a. to describe changes that occur when materials are mixed  
[for example, adding salt to water]

##### **Separating mixtures of materials**

3. Pupils should be taught:

- a. how to separate solid particles of different sizes by sieving  
[for example, those in soil]

## **Plato's Pond aligns with the following National Standards**

(For supplementing classroom learning Years 7-8.)

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### **National Curriculum Science Key Stage 3**

#### **Key Concepts:**

##### **1.1 Scientific thinking**

- a. Using scientific ideas and models to explain phenomena and developing them creatively to generate and test theories.
- b. Critically analysing and evaluating evidence from observations and experiments.

#### **Key Processes:**

##### **2.1 Practical and enquiry skills**

Pupils should be able to:

- a. use a range of scientific methods and techniques to develop and test ideas and explanations

#### **Range and Content:**

##### **3.2 Chemical and material behaviour**

- a. elements and compounds show characteristic chemical properties and patterns in their behaviour.

##### **3.3 Organisms, behaviour and health**

- d. all living things show variation, can be classified and are interdependent, interacting with each other and their environment
- e. behaviour is influenced by internal and external factors and can be investigated and measured.

##### **3.4 The environment, Earth and universe**

- a. geological activity is caused by chemical and physical processes

#### **Curriculum Opportunities:**

The curriculum should provide opportunities for pupils to:

- a. research, experiment, discuss and develop arguments
- c. use real-life examples as a basis for finding out about science