



## Linked learning theme: Year 4 – Spring 2

### Computing – Data and information – Data logging

#### Prior Learning

- The children will have explored a range of data presentation methods throughout the curriculum, most recently analysing why data is collected and the most efficient ways to present it for a purpose during the Branching Databases unit in Year 3. This knowledge will be extended during this unit by finding the most efficient ways to both collect and present data.

#### Core knowledge

In this unit, learners will consider how and why data is collected over time. Learners will consider the senses that humans use to experience the environment and how computers can use special input devices called sensors to monitor the environment. Learners will collect data as well as access data captured over long periods of time. They will look at data points, data sets, and logging intervals. Learners will spend time using a computer to review and analyse data. Towards the end of the unit, learners will pose questions and then use data loggers to automatically collect the data needed to answer those questions.

#### Key skills

- Evaluate the purpose and suitability of data.
- Identify appropriate devices for collecting data.
- Transfer data from a digital device to a computer.
- Analyse data.
- Identify and collect relevant data.
- Evaluate the effectiveness of data collection methods.

#### Vocabulary

Data  
Collect  
Present  
Sensors  
Data logger  
Evaluate

#### Learning Outcomes

- To explain that data gathered over time can be used to answer questions.
- To use a digital device to collect data automatically.
- To explain that a data logger collects 'data points' from sensors over time.
- To recognise how a computer can help us analyse data.
- To identify the data needed to answer questions.
- To use data from sensors to answer questions.