

## EXCEL LOGGING AND HANDLING DATA – OVERVIEW

### Overview

This unit will introduce students to spreadsheets. They will develop skills in collecting, entering, and analysing data. Students will learn about basic formulae and functions. They will visualise data through the creation of charts and learn about basic conditional formatting to highlight patterns in data.

Students will combine a variety of software to accomplish given goals and will create, organise, store, and manipulate digital content for a purpose.

### National Curriculum

| Knowledge and understanding                                                                                                                                                                           | Computing concepts                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| To understand computer networks, including the internet and how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration. | Computer systems – understanding how networks can be used to retrieve and share information.                                               |
| To use technology safely, respectfully, and responsibly; recognise unacceptable behaviour; identify a range of ways to report concerns about content and contact.                                     | Digital literacy – understanding how to behave responsibly when using digital services and e-safety.                                       |
| To use logical reasoning to explain how algorithms work.                                                                                                                                              | Logical reasoning – explaining why programs respond in the way they do and how to troubleshoot problems when programs behave unexpectedly. |

### The Computing Curriculum

Where the knowledge and understanding developed in this unit fits into Illuminate's computing curriculum is outlined below:

| Prior Learning                                          | Future Learning                      |
|---------------------------------------------------------|--------------------------------------|
| EYFS Unit: Unplugged pictograms and branching databases | Year 4: Binary data                  |
| Year 1 Unit: Introduction to data                       | Year 4: Intermediate spreadsheets    |
| Year 2 Unit: Introduction to presenting data            | Year 5: Introduction to surveys      |
|                                                         | Year 6: Reporting data with Power BI |

### Cross-curricular links and extension activities

This unit provides opportunities for cross-curricular links in science through students observing and describing the weather associated with the seasons.

It provides opportunity for links in geography identifying seasonal and daily weather patterns in the UK.

This unit provides opportunities for links with maths. Students will collect and interpret data using charts and graphs; and compare quantities.

This unit also provides opportunities for links with English through descriptive writing opportunities from weather observations and oral data discussions.