

REPORTING WITH POWER BI – OVERVIEW

Overview

This unit will develop students' understanding of powerful data tools to visualise, interpret, and report findings on data. Students will use datasets to learn how to structure and clean data before they take the cleansed and present it using visuals. Students will develop skills in digital reporting, visual clarity, and analytical thinking when reporting on data.

Students will develop data handling skills using modern business intelligence (BI) tools. They will develop critical thinking in data interpretation and creativity through design and storytelling with data.

National Curriculum

The areas of the National Curriculum and the key computing concepts covered in this unit are outlined in the table below:

Knowledge and understanding	Computing concepts
To select, use and combine a variety of software (including internet services) to create content that accomplishes given goals.	Digital creative and productivity tools – using software to create content and accomplish specific tasks. Systems and integration – combining different tools.
To collect, analyse, evaluate, and present data and information	Data handling and analysis – gathering data, cleaning, organising, and spotting patterns and trends. Digital literacy – how digital tools can transform data into meaningful insights.

The Computing Curriculum

Where the knowledge and understanding in this unit fits into the computing curriculum is outlined in the table below:

Prior Learning	Future Learning
EYFS Unit: Unplugged pictograms and branching databases	Year 6 Unit: Introduction to AI
Year 1 Unit: Introduction to data	
Year 2 Unit: Word processing	
Year 2 Unit: Introduction to presenting data	
Year 3 Unit: Presentations	
Year 3 Unit: Excel logging and handling data	
Year 4 Unit: Spreadsheets	
Year 4 Unit: Binary data	
Year 5 Unit: Systems and searching	
Year 5 Unit: Introduction to surveys	

Cross-curricular links and extension activities

This unit provides opportunity for cross-curricular links in mathematics. Students will develop their understanding of statistics by presenting discrete data using bar charts, line graphs, and tables. Students will carry out data comparison and interpretation spotting trends, comparing quantities, and calculating differences. Students can use the data to develop their understanding of averages and percentages.

This unit provides cross-curricular links in English as students craft summaries and explain data clearly. They can present findings to the class in order to develop their speaking and listening skills.

There are opportunities for cross-curricular links in art and design as students create clear visuals layouts, make complementary colour choices, and use infographics in their report designs.