What I Need to Know: Y5 Computing: Data & Information – Flat file databases

We nurture the curiosity to learn, the courage to lead and the compassion to care.

In this unit, we will learn how a flat-file database can be used to organize data in records. We will use tools within a database to order and answer questions about data. We will create graphs & charts from data to help solve problems and then present our work to others.

Create, Communicate & Evaluate	
Take on role of a travel agent investigating costs of flights & present my findings to a group/class	

Question, Reason, Discuss & Explain	
Compare paper and computer-based databases	
Explain what a field and a record is in a database	
Explain that data can be grouped using chosen values	
Explain that tools can be used to select specific data	
Explain that computer programs can be used to compare data visually & explain their benefits	

Know & Do	
Create a database using cards; order, sort and group my data cards	
Choose which field to sort data by to answer a given question	
Combine grouping and sorting to answer specific questions	
Outline how 'AND' and 'OR' can be used to refine data selection	
Select an appropriate chart to visually compare data	

Vocabulary I need to know…
database, data, information, record, field, sort, order, group, search, criteria, value, graph, chart, axis, compare, filter, presentation

Opportunities to support English and maths
English – discuss & explain learning and data sets, present information to other groups/the whole class   Check their meaning is clear, when planning their presentation Maths - Complete, read and interpret information in tables, including timetables

Curriculum Links and Enrichment Activities
• Work collaboratively with others to create a presentation on flight costs using data • Look at real life scenario of travel agents/flights

Respect   *Responsibility*   *Reflection*   *Resilience*