

Progression

This unit progresses students' knowledge and understanding of data, and teaches them how to organise and modify data within spreadsheets. Specifically, learners will have experienced data in tables and charts in the Y4 data logging and Y5 branching database units.

Curriculum links

Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.

Key Vocabulary and Definitions:

Data collecting	Data collection is the process of collecting and evaluating information or data from multiple sources to find answers to research problems.
table	Excel table is a named object that allows you to manage its contents independently from the rest of the worksheet data
structure	construct or arrange according to a plan
spreadsheet	an electronic document in which data is arranged in the rows and columns of a grid and can be manipulated and used in calculations
Formula	a mathematical relationship or rule expressed in symbols.
calculation	a mathematical determination of the amount or number of something.
data	facts and statistics collected together for reference or analysis.
input	put (data) into a computer.
output	(of a computer or other device) produce, deliver, or supply (data).

Teaching Sequence

Computer Science Aims:

1. To create and build a data set in a spreadsheet
2. To explain that formulas can be used to produce calculated data
3. To apply formulas to data
4. To create a spreadsheet to plan an event
5. To choose suitable ways to present data.

Online Safety Aims:

1. To describe how to capture bullying content as evidence (e.g screen-grab, URL, profile) to share, with others who can help me.
2. To explain how someone would report online bullying in different contexts
3. To describe how and why people should keep their software and apps up to date
4. To describe simple ways to increase privacy on apps and services that provide privacy settings.
5. To describe ways in which some online content targets people to gain money or information illegally
6. To know that online services have terms and conditions that govern their use

Key Knowledge

Final outcome

Aims	Advice
1. To describe how to capture bullying content as evidence (e.g screen-grab, URL, profile) to share, with others who can help me.	
2. To explain how someone would report online bullying in different contexts	
3. To describe how and why people should keep their software and apps up to date	
4. To describe simple ways to increase privacy on apps and services that provide privacy settings.	
5. To describe ways in which some online content targets people to gain money or information illegally	
6. To know that online services have terms and conditions that govern their use	

Key Knowledge

Final outcome

At the end of the term, learners will create charts on Excel spreadsheet, and evaluate their results in comparison to questions asked.

Date of survey	19/10/2021	Name	Method of travel	Distance in miles	Duration of journey	Cost of journey
		Reina	Car	4.4	0:24:00	£2.60
		David	Bus	6.2	0:30:00	£1.40
		Yiannis	Bike	2.3	0:15:00	£0.00
		Bob	Walking	0.8	0:21:00	£0.00
		Amin	Bus	6.2	0:24:00	£1.40