Computing 24-25

Year 4 – Microsoft excel – Graphs & Data

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Remember when:	Key vocabulary	
Typing, Formatting (word & excel), Editing	-	-
By the end of this unit children must be able to:	bar chart	data
Log into teams and open excel files.	graph pie chart	table cell
Select and input data to create a graph/ bar chart / pie chart	column	row
Add labels and title to the bar chart.	scatter	Data
I can identify data that can be gathered over time		loggers
I can use data from a sensor to answer a given question and interpret the data		
I can sort data to find information		

In Year 3:

- change the format of a cell percentage, decimal places, currency.
- change the height and width of columns and rows.
- sort data in a table using different criteria.
- create filters to filter out data.

National curriculum:

 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, analyzing, evaluating and presenting data and information.

Science – Lower key stage 2/Year 4

- Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.
- They should learn how to use new equipment, such as data loggers, appropriately. They should collect data from their own observations and measurements, using notes, simple tables and standard units, and help to make decisions about how to record and analyse this data.



	Title / Focus	Lesson outline
Lesson 1- I	ntroduction to Excel	Children explore Excel features – Why do we use excel?
LO- To recap formatting cells inb Excel		Change format of the cell – percentage, decimals, currency.
		Change height and width of columns and rows.
Sticky Kno	wledge-	
To change t width of cell	he format, height, s.	
Lesson 2 A LO- To expl over time ca questions Sticky Kno data that ca time	nswering questions ain that data gathered an be used to answer wledge- I can identify n be gathered over	Teach Computing- Lesson 1- Data Logging Learners will consider what data can be collected and how it is collected. They will think about data being collected over time. Learners will also think about questions that can and can't be answered using available data, and reflect on the importance of collecting the right data to answer questions.
Lesson 3 LO- To use collect data Sticky Kno	a digital device to automatically wledge-	Teach Computing- Lesson 2- Collecting Data Learners will build on the idea of collecting data over time, and be introduced to the idea of collecting data automatically using computers such as data loggers. They will also be introduced to the concept that computers can capture data from the physical world using input devices called 'sensors'. Learners will establish that

I can use data from a sensor to answer a given question	sensors can be connected to data loggers, which can automatically collect data while not attached to a computer.
Lesson 4 Analysing data LO- To recognise how a computer can help us analyse data	Teach Computing- Data Logging Lesson 4 Learners will open an existing data file and use software to find out key information. They will analyse a data file which is a five-hour log of hot water cooling to room temperature.
Sticky Knowledge- I can sort data to find information	
Lesson 5	Children to create a table of their data collected in the previous sessions
Create a table LO- To display data collected	Children to create a bar chart from the data collected last lesson. Children to add labels and title to bar chart. Children to create a pie chart from data collected.
Sticky Knowledge- I can interpret data that has been collected using a data logged	Children to add labels and titles to pie chart.