Computing 22-23
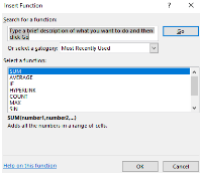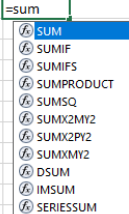
Year 5 – Microsoft excel – Formulas

Remember when: Typing, Formatting (word & excel), Editing, Graphs	**Key vocabulary**
By the end of this unit children must be able to: • Log into teams and open excel files. • Use a formula to calculate the total. • Add columns and rows of data together. • Subtract cells to find remaining.	add brackets formula subtract sum total

In Year 3:	**In Year 4:**
• 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.	• Log into teams and open excel files. • Select and input data to create a graph/ bar chart / pie chart • Add labels and title to the bar chart. • I can identify data that can be gathered over time • I can use data from a sensor to answer a given question and interpret the data • I can sort data to find information

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.

Features

	Title / Focus	**Lesson outline**
	Lesson 1- Inputting data into a spreadsheet LO- to input data into a spreadsheet SK- Year 4- Log into teams and open excel files. Select and input data to create a graph	Recap previous learning- rows, cells, columns etc from Year 4 Children to input data into a table about how far planets are away from the sun. They are to format the cells, making them wider etc. Making titles bold and centered. Make a bar graph from the data putting in titles and axis labels. Working in mixed ability pairs
	Lesson 2 -Inputting data into a spreadsheet LO- To use a formula to create totals SK- Use a formula to calculate the total. Add rows and columns of data together.	Data from the ISS- which countries have sent astronauts to the ISS. Children to input data onto a spreadsheet. Bar graphs Introduce inputting a formula into the cells to add up the totals. Model putting in the formula explaining what each part of the formula means. Mixed ability pairs for children to practice using the formula. EX- Children to create a table about their friends and number of toys. Children to use the formula to add the totals up.
	Lesson 3- Using formulas LO- To use formulas to add amounts in cells. SK- Use a formula to calculate the total. Subtract columns and rows of data together.	Use data from amounts of astronauts that have completed space walks. Children are to use formula to add up the totals of the columns. Children to answer specific questions using certain cells formula to answer the questions. Children are to use the subtraction formula to work out totals taking away from the total number of space walks Mixed ability pairs.
	Lesson 4- Using formulas LO- To use formulas to add amounts in cells. SK- Use a formula to calculate the total.	Children to look at the data on the spreadsheet. They are to fix the errors in the spreadsheets and insert formulas to create totals at the bottom of the columns.

Subtract cells to find remaining	They are then to use the subtraction formula to take the totals away from the number of people in the countries.
Lesson 5- Assessment	Give the children some data to display in a spreadsheet. They are to use all the skills learned in the unit to complete the spread sheet with formulas.

Working towards	End of Unit Assessment Working at Age related expectations	Working at a greater depth