Computing – Year 6

Summer 1	Spreadsheets					
Prior learning	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 unit and Y5 Branching Database unit.					
Lesson objective	To create a data set in a spreadsheet	To build a data set in a spreadsheet	To explain that formulas can be used to produce calculated data	To apply formulas to data	To create a spreadsheet to plan an event	To choose suitable ways to present data
Key vocabulary	Data, collecting, table, structure, spreadsheet	Cell, cell reference, data item, format	Formula, calculation, data, spreadsheet, input, output, cells, cell reference	Data, calculate, operation, formula, cell, range, duplicate, sigma	Propose, question, data set, data, organised, formula	Chart, evaluate, results, comparison, questions, software, tools, data
Creative context	BBC bitesize: https://www.bbc.co.uk/bitesize/articles/zgg9pbk https://www.bbc.co.uk/bitesize/topics/z7rcwmn Links to the statistics unit in maths.					
Substantive knowledge	I know that a spreadsheet displays data. I know that a table needs column headings.	I know that a box in a spreadsheet is called a cell. I know that each cell has a unique cell reference. I know that each cell contains a data item.	I know that + is used to add, - is used to subtract, * is used to multiply and / is used to divide. I know that number data can be used in calculations, but word data cannot. I know that formulas need to start with =.	I know that spreadsheets can be used to calculate averages, find the sum of multiple cells and count the number of an object. I know that functions can be found by clicking on the sigma button.	I know that data headings help to organise data.	I know that a chart saves people from looking through a detailed spreadsheet and making assumptions.
Disciplinary knowledge	I know how to collect data. I know how to set up a new spreadsheet.	I know how to formulate a cell.	I know how to use + - * and / in a spreadsheet.	I know how to use the four operations in an spreadsheet. I know how to use the SUM and average function.	I know how to work out a budget. I know how to work out a subtotal.	I know how to select the data involved in a chart. I know how to create a chart.
Recorded learning	Children will collect data and then record their data into a spreadsheet.	Children will create a class data set about travelling to school,	Children will complete calculations (four operations) in a spreadsheet.	Children will complete calculations (four operations, SUM and	Children will 'plan a celebratory event' using a spreadsheet – calculating budget,	Children will convert their data from the previous lesson into a pie chart.

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		then populate it within a spreadsheet.		average) in a spreadsheet.		
Outcome for unit	Final project: Celebratory event (save to their folders). End of unit evaluation – Please complete the teacher/self evaluation slide for this unit (the slide is in the folder), by writing their names in the correct boxes.					
Future learning	This programming unit should prepare them for data units they will complete in KS3 within computing, as well as science, maths and other subjects. Spreadsheet knowledge will support them in a variety of different ways within education and wider life.					