Knowledge Mat – Spreadsheets

Subject Specific Vocabulary				Sticky Knowledge
Advanced mode	A mode in 2claulcte in which the cells have references and can include formulae.	**Move cell tool**	This tool makes a cell's contents moveable by drag-and-drop methods.	To use a spreadsheet to investigate the probability of the results of throwing many dice.
Random tool	Click to give a random value between 0 and 9 to the cell.	**Rows**	Vertical reference points for the cells in a spreadsheet.	To use a spreadsheet to calculate the discount and final prices in a sale.
Average	Symbols used to represent comparing two values.	**Timer**	When placed in the spreadsheet, click the timer to adds 1 to the value of the cell to its right every second until it is clicked again.	To use a spreadsheet to plan how to spend pocket money and the effect of saving money.
Columns	Vertical reference points for the cells in a spreadsheet.	**Spin tool**	Clicking on this in a cell will increase or decrease the value in the cell by the right by 1.	To use a spreadsheet to plan a school charity day to maximise the money donated to charity.
Cells	An individual section of a spreadsheet grid. It contains data or calculations.	**Equals tool**	Tests whether the entered calculation in the cells to the left of the tool has the correct answer in the cell to the right of the tool.	
Charts	Vertical reference points for the cells in a spreadsheet.	**Count (how many) tool**	Counts the number of whatever value object is in the cell to its immediate left and puts the answer in the cell to its immediate right.	
Spreadsheet	A computer program that represents information in a grid or rows and columns.	**Formula**	Use the formula wizard or type into the formula bar to create a formula in a cell, this will calculate the value for the cells based upon the value of other cells in the spreadsheet.	
Copy and Paste	A way to copy information from the screen into the computer's memory and paste it elsewhere without re-typing.	**Formula Wizard**	The wizard guides you in creating a variety of formula for a cell such as calculations, totals, averages, minimum and maximum for the selected cells.	
		Dice	When clicked, this will simulate a dice roll by switching to one of the faces of a dice.	

Key questions

How would you add a formula so that the cell shows the total of a column of cells?

Use the formula wizard advanced total tool or type a formula into the cell by using the '=' symbol, mathematical operators and cell references.

What is a computational model and what it can be used for?

Modelling in Computing means creating or using a simulation (a model) of a real-life situation, on a computer. It represents the data of a situation. For example, budgeting for a party; working out how big a field needs to be for a certain number of animals, working out the best price for an item or using the existing data to predict what time your shadow will be a certain length.

SCHOOL READY, WORK READY, LIFE READY

If you were going to use a spreadsheet to plan your dream holiday. What data would you collect to cost the trip ?

Ideas could include: travel; comparing the cost of different methods, airport, airlines, different companies and discounts such as rail cards. Cost of accommodation of different types, trips out, food, passports, immunisations.

Knowledge Mat – Blogging

Subject Specific Vocabulary		Sticky Knowledge
Audience	In this case the readership of the blog.	To identify the purpose of writing a blog.
Blog page	A webpage onto which blog posts are hosted.	To identify the features of a successful blog.
Collaborative	Produced by or involving two or more parties working together.	To plan the theme and content for a blog.
Interactive	Responding to a user's input on a computer or device.	To understand how to write a blog and blog post.
Blog	A regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.	To consider the effect upon the audience of changing the visual properties of the blog.
Blog post	A piece of writing or other item of content published on a blog.	To understand how to contribute to an existing blog.
Icon	A symbol or graphic representation on a screen.	To understand how and why blog posts are approved by the teacher.
Key questions		To understand the importance of commenting on blogs.

What is a blog ?

A blog is a website or webpage that is regularly updated by the author. A blog also allows the reader to post comments or opinion based on what is written.

What can a blog be about ?

A blog can be written about any subject. You could write a blog about school such as information about the subject you are studying. Alternatively, you could write a blog about your favourite team or movie.

How are the audience involved in a blog?

A key feature of blogs is that the audience can leave a comment or opinion about what they have read on the blog.

Knowledge Mat – Text Adventures

Subject Specific Vocabulary		Sticky Knowledge
Text-based adventure	A computer game that uses text instead of graphics	To find out what a text adventure is.
Concept map	A tool for organising and representing knowledge. They form a web of ideas which are all interconnected.	To use 2connect to plan a story adventure.
Debug	Identify and remove errors from (computer hardware or software).	To make a story-based adventure using 2Create a Story.
Sprite	A computer graphic which may be moved on-screen.	To introduce an alternative model for a text adventure which has a less sequential narrative.
Function	In this context, a section of code that gets run when it is called from the main code. A function in a program is usually a place of code that gets run lots of times.	To use written plans to code a map-based adventure in 2Code.

Key questions
What is a text based adventure ? A text based adventure is a type of a game that uses test rather than graphics to tell the story. The player normally selects the next move from a series of text based options
Why is it important to plan a text based adventure ? Text based adventures can often be complicated and give the player lots of options about what to do next. Planning the game ensures the player does not make a decision that has no outcome.