Knowledge Mat – Branching Databases.

Subject Specific Vocabulary		Key Knowledge
Branching database	Used to classify groups of objects. It is used to help identify the objects by answering questions with either a 'yes' or 'no'. Branching databases can also be called binary trees.	To sort objects using just 'yes' and 'no' questions.
Database	A collection of data organised in such a way that it can be searched, and information found easily. Database usually refers to data stored on computers.	To complete a branching database using 2Questions.
Question	Something that is asked or written to ty to gain information.	To create a branching database of the children's choice.
Data	Facts and statistics collected together for information.	

Key Questions
What is meant by data ? Facts about something; data can be words, numbers or pictures. Class registers contain data about the children's names, addresses and attendance.
What is a database ? A collection of data organised in such a way that it can be searched, and information found easily. Database usually refers to data stored on computers.
What is a branching database ? Used to classify groups or objects. It is used to help identify the objects by answering questions with either 'yes' or 'no'. Branching databases can also be called binary trees.

Knowledge Mat – Simulation

Subject Specific Vocabulary		Key Knowledge
Simulation	A computer program that models a real-life situation. They let you try things out that would be too difficult or dangerous to do in real life.	To consider what simulations are.
		To explore a simulation.
		To analyse and evaluate a simulation.

Key Questions
What is a computer simulation ? A program that models a real-life situation. They let you ty things out that would be too difficult or dangerous to do in real life.
What kind of simulations are there ? Some simulations represent dangerous situations for training such as flying space, carrying out medical operations or piloting an plane.
Are there any problems with simulations ? Simulations are often too simple; and unexpected problems can still occur in real life that are difficult to simulate. Simulations can also be very expensive.

Knowledge Mat – Graphing

Subject Specific Vocabulary				key Knowledge
Graph	A diagram showing value of objects.	**Field**	A part of a record.	To enter data into a graph and answer questions.
Data	Facts and statistics collected together for reference	**Pie chart**	A type of graph in which a circle is divided into sections that each represent a part of the whole	To solve an investigation and present the results in graphic form.
Line graph	A graph where a line is used to show an amount.	**Block graph**	A graph where a block represents one item.	
Row	A horizontal line of entries in a table or graph.	**Column**	A vertical line of entries in a table or graph.	
Bar chart	A graph in which the numerical amounts are shown by the height or length of lines or rectangles of equal width.			

Key Questions
What is a graph ? A diagram representing part of a set of data. Graphs can be drawn by hand or on the computer. There are different types of graphs.
What are the frame lines on a graph called ? They are the axes. The axis that goes up and down (vertical) is called ‘y’ axis and usually shows the amount. The axis that goes across (horizontal) is called the ‘x’ axis and sows what is being measured.
What different kinds of graphs are there ? There are lots of different types of graphs including line graph, bar chart and pie chart.

Knowledge Mat – Presenting

Subject Specific Vocabulary				key Knowledge
WordArt	A way to treat text as a graphic so that you can add special effects to text.	**Design Themes**	A variety of ready-made templates with custom formatting (font, colour, schemes, etc) which gives a certain look and feel.	To understand the purpose of the Slides tool.
Font	A set of type which shows words and numbers in a particular style and size.	**Media**	Images, videos or sounds which can be added to presentation.	To add slides to presentations.
Presentation	A visual way of displaying information to an audience that is clear and engaging. It can contain text, images and videos.	**Presentation Program**	A computer program such as Google – 3.9 (Google) Slides, which is used to create a presentation.	To add media to presentations.
Slide	A single page within the presentation.	**Slideshow**	A collection of pages arranged in sequence that contains text and images to present to an audience. Often referred to as a Slides presentation.	To format text appropriately.
Text formatting	When you change the format of the text on a page, including the font, the size and whether it is bold, underlined or in italics.	**Transition**	The interesting effect used when one slide moves onto the next.	To add shapes and lines to enhance a presentation.
Animation	Visual effects used on objects such as text boxes or pictures. They allow these objects to be brought on an off the slide in a certain way.			To use the skills learnt to design and create an engaging presentation.

Key Questions
What is a presentation program used for ? A presentation program is used to present information to an audience in an engaging way – such as including text, pictures and videos. Google Slides is an example of a presentation program.
How do you add a transition to a presentation ? Click on 'Transitions' at the top of the screen and select the transition you wish to use from the Motion Menu. Choose the speed that you think will look the best.
What features can you use to make a presentation more engaging ? You can give your presentation an engaging look and feel by using different fonts, colour schemes and using an interesting format. Adding pictures, sound and videos would also make a presentation more interesting to an audience. Using animations and interesting transitions between slides would also be engaging.