



Key Thread	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computing systems and networks	<p>Know what technology is and give examples</p> <p>Know the parts of a computer (mouse, keyboard, screen)</p>	<p>Know some uses of information technology</p> <p>Know that choices are made when using information technology</p>	<p>know that a process acts on an input and produces outputs</p> <p>know what input and output devices are</p> <p>know how devices in a network can be connected</p>	<p>know how networks connect to other networks</p> <p>know that the global interconnection of networks is the internet</p> <p>know that the World Wide Web is part of the internet</p>	<p>know that search engines are examples of large IT systems</p> <p>Know that web crawlers index the web for search engines</p> <p>know how search results are selected</p>	<p>know that data is transferred across networks using agreed protocols</p> <p>know that data is transferred in packets</p> <p>know that communicating and collaboration using the internet can be public or private</p>
Creating media	<p>know computers can be used to create art</p> <p>know a tool can be adjusted to suit my need</p> <p>Know when it's appropriate to use each tool</p>	<p>know that some digital devices can capture images using a camera</p> <p>Know the features of 'good' photographs</p> <p>know how a photograph could be improved</p> <p>know that photographs can</p>	<p>know that an animation is made up of a sequence of images</p> <p>Know about the need for consistency in working</p> <p>know the impact of adding other media to an animation</p> <p>Know that a project</p>	<p>know that sound can be recorded</p> <p>know that an input device is needed to record audio and an output device is needed to play audio</p> <p>know that audio can be layered so that multiple sounds can be played at the same time</p>	<p>know the features of video as a visual media format</p> <p>know that filming techniques can be used to create different effects</p> <p>know that videos can be edited on a recording device or on a computer</p>	<p>know the relationship between HTML and visual display</p> <p>know that web pages can contain different media types</p> <p>know that a website is a set of hyperlinked web pages</p>



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		be changed after they have been taken and may not be accurate	must be exported so it can be shared			Know the rules of ownership and use of images (copyright)
Data and information	<p>know that a keyboard is used to enter text into a computer</p> <p>know that the Shift key changes the output of a key</p> <p>know that text can be changed and edited</p>	<p>know that computers can be used to play sounds of different instruments</p> <p>Know the differences between playing music on instruments and making music on a computer</p>	<p>know how text and images can be used together to convey information</p> <p>know that DeskTop Publishing pages can be structured with placeholders</p> <p>know how different font styles and effects are used for particular purposes</p>		<p>know that each object in a drawing is in its own layer</p> <p>know that vector images can be scaled without impact on quality</p> <p>know how alignment and size guides can help create a more consistent drawing</p>	<p>know that 3D models can be created on a computer</p> <p>know that a 3D environment can be viewed from different perspectives</p> <p>know that digital tools can be used to manipulate 3D objects</p> <p>know how placeholders can create holes in 3D objects</p>
Programming	<p>know that information can be presented</p> <p>know that information can be</p>	<p>Know when objects have been grouped by attribute</p> <p>know that we can</p>	<p>Know that a branching database is an identification tool</p>	<p>Know that data that can be logged over time by capturing data points</p>	<p>know that tools can be used to select data to answer questions</p>	<p>know how the data type determines how a spreadsheet can process the data</p>



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	presented in different ways	present information using a computer Know how to use a computer program to present information in different ways	know that a well-structured branching database will enable you to identify objects using fewer questions	Know that sensors are input devices	know how operands can be used to filter data know how ' AND ' and ' OR ' can be used to refine data selection	know that formulas can be used to produce calculated data know cells can be linked