



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



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		be changed after they have been taken and may not be accurate	must be <b>exported</b> so it can be shared			Know the rules of ownership and use of images ( <b>copyright</b> )
<b>Data and information</b>	<p>know that a <b>keyboard</b> is used to enter <b>text</b> into a computer</p> <p>know that the <b>Shift key</b> 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 <b>DeskTopPublishing</b> pages can be structured with placeholders</p> <p>know how different <b>font</b> styles and effects are used for particular purposes</p>		<p>know that each object in a drawing is in its own <b>layer</b></p> <p>know that <b>vector images</b> can be <b>scaled</b> without impact on quality</p> <p>know how <b>alignment</b> and size guides can help create a more consistent drawing</p>	<p>know that <b>3D models</b> 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 <b>placeholders</b> can create holes in 3D objects</p>
<b>Programming</b>	<p>know that <b>information</b> 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 <b>branching database</b> is an identification tool</p>	<p>Know that <b>data</b> that can be <b>logged</b> over time by capturing <b>data points</b></p>	<p>know that tools can be used to <b>select data</b> to answer questions</p>	<p>know how the <b>data type</b> determines how a spreadsheet can process the data</p>



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