



Year Four Computing Overview for the Year

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Term 1	<p>Computing systems and networks – The Internet</p> <p>Lesson 1:</p> <p>LO: To describe how networks physically connect to other networks. KS2: CO 4, 5, 6, 7</p> <p>Big Idea (Aspect):</p> <p>Humankind (Communication and Staying safe) Investigation (Networks) Comparison (Digital searching)</p>	<p>Computing systems and networks – The Internet</p> <p>Lesson 2:</p> <p>LO: To recognise how networked devices make up the internet KS2: CO 4, 5, 6, 7</p> <p>Big Idea (Aspect):</p> <p>Humankind (Communication and Staying safe) Investigation (Networks) Comparison (Digital searching)</p>	<p>Computing systems and networks – The Internet</p> <p>Lesson 3:</p> <p>LO: To outline how websites can be shared via the World Wide Web (www.) KS2: CO 4, 5, 6, 7</p> <p>Big Idea (Aspect):</p> <p>Humankind (Communication and Staying safe) Investigation (Networks) Comparison (Digital searching)</p>	<p>Computing systems and networks – The Internet</p> <p>Lesson 4:</p> <p>LO: To describe how content can be added and accessed on the World Wide Web. KS2: CO 4, 5, 6, 7</p> <p>Big Idea (Aspect):</p> <p>Humankind (Communication and Staying safe) Investigation (Networks) Comparison (Digital searching)</p>	<p>Computing systems and networks – The Internet</p> <p>Lesson 5:</p> <p>LO: Recognise how the content of the WWW is created by people. KS2: CO 4, 5, 6, 7</p> <p>Big Idea (Aspect):</p> <p>Humankind (Communication and Staying safe) Investigation (Networks) Comparison (Digital searching)</p>	<p>Computing systems and networks – The Internet</p> <p>Lesson 6:</p> <p>LO: To evaluate the consequences of unreliable content KS2: CO 4, 5, 6, 7</p> <p>Big Idea (Aspect):</p> <p>Humankind (Communication and Staying safe) Investigation (Networks) Comparison (Digital searching)</p>
Term 2	<p>Creating media - Audio production</p> <p>Lesson 1:</p> <p>LO: To identify that sound can be recorded KS2: CO 5, 6, 7</p>	<p>Creating media - Audio production</p> <p>Lesson 2:</p> <p>LO: To explain that audio recordings can be edited KS2: CO 5, 6, 7</p>	<p>Creating media - Audio production</p> <p>Lesson 3:</p> <p>LO: To recognise the different parts of creating a podcast project KS2: CO 5, 6, 7</p>	<p>Creating media - Audio production</p> <p>Lesson 4:</p> <p>LO: To apply audio editing skills independently KS2: CO 5, 6, 7</p>	<p>Creating media - Audio production</p> <p>Lesson 5:</p> <p>LO: To combine audio to enhance my podcast project KS2: CO 5, 6, 7</p>	<p>Creating media - Audio production</p> <p>Lesson 6:</p> <p>LO: To evaluate the effective use of audio KS2: CO 5, 6, 7</p>



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	Big Idea (Aspect): Place (Real world) Materials (Software and Hardware) Creativity (Creation)	Big Idea (Aspect): Place (Real world) Materials (Software and Hardware) Creativity (Creation)	Big Idea (Aspect): Place (Real world) Materials (Software and Hardware) Creativity (Creation)	Big Idea (Aspect): Place (Real world) Materials (Software and Hardware) Creativity (Creation)	Big Idea (Aspect): Place (Real world) Materials (Software and Hardware) Creativity (Creation)	Big Idea (Aspect): Place (Real world) Materials (Software and Hardware) Creativity (Creation)
Term 3	Programming A – Repetition in Shapes Lesson 1: LO: To identify that accuracy in programming is important. KS2: CO 1, 2, 3, 6	Programming A – Repetition in Shapes Lesson 2: LO: To create a program in a text-based language. KS2: CO 1, 2, 3, 6	Programming A – Repetition in Shapes Lesson 3: LO: To explain what ‘repeat’ means. KS2: CO 1, 2, 3, 6	Programming A – Repetition in Shapes Lesson 4: LO: To modify a count-controlled loop to produce a given outcome. KS2: CO 1, 2, 3, 6	Programming A – Repetition in Shapes Lesson 5: LO: To decompose a task into small steps. KS2: CO 1, 2, 3, 6	Programming A – Repetition in Shapes Lesson 6: LO: To create a program that uses count-controlled loops to produce a given outcome. KS2: CO 1, 2, 3, 6
	Big Idea (Aspect): Investigation (Data and Computational Thinking) Materials (Software) Processes (Physical Interaction)	Big Idea (Aspect): Investigation (Data and Computational Thinking) Materials (Software) Processes (Physical Interaction)	Big Idea (Aspect): Investigation (Data and Computational Thinking) Materials (Software) Processes (Physical Interaction)	Big Idea (Aspect): Investigation (Data and Computational Thinking) Materials (Software) Processes (Physical Interaction)	Big Idea (Aspect): Investigation (Data and Computational Thinking) Materials (Software) Processes (Physical Interaction)	Big Idea (Aspect): Investigation (Data and Computational Thinking) Materials (Software) Processes (Physical Interaction)
Term 4	Data and information – Data logging Lesson 1:	Data and information – Data logging Lesson 2:	Data and information – Data logging Lesson 3:	Data and information – Data logging Lesson 4:	Data and information – Data logging Lesson 5:	Data and information – Data logging Lesson 6:



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	<p>LO: To explain that data gathered over time can be used to answer questions KS2: CO 2, 6</p> <p>Big Idea (Aspect):</p> <p>Place (Real world) Materials (Hardware) Nature (Real world)</p>	<p>LO: To use a digital device to collect data automatically KS2: CO 2, 6</p> <p>Big Idea (Aspect):</p> <p>Place (Real world) Materials (Hardware) Nature (Real world)</p>	<p>LO: To explain that a data logger collects 'data points' from sensors over time KS2: CO 2, 6</p> <p>Big Idea (Aspect):</p> <p>Place (Real world) Materials (Hardware) Nature (Real world)</p>	<p>LO: To recognise how a computer can help us analyse data KS2: CO 2, 6</p> <p>Big Idea (Aspect):</p> <p>Place (Real world) Materials (Hardware) Nature (Real world)</p>	<p>LO: To identify the data needed to answer questions KS2: CO 2, 6</p> <p>Big Idea (Aspect):</p> <p>Place (Real world) Materials (Hardware) Nature (Real world)</p>	<p>LO: To use data from sensors to answer questions KS2: CO 2, 6</p> <p>Big Idea (Aspect):</p> <p>Place (Real world) Materials (Hardware) Nature (Real world)</p>
Term 5	<p>Creating media – Photo Editing</p> <p>Lesson 1:</p> <p>LO: To explain that the composition of digital images can be changed. KS2: CO 6, 7</p> <p>Big Idea (Aspect):</p> <p>Place (Digital world) Materials (Software) Creativity (Creation)</p>	<p>Creating media – Photo Editing</p> <p>Lesson 2:</p> <p>LO: To explain that colours can be changed in digital images. KS2: CO 6, 7</p> <p>Big Idea (Aspect):</p> <p>Place (Digital world) Materials (Software) Creativity (Creation)</p>	<p>Creating media – Photo Editing</p> <p>Lesson 3:</p> <p>LO: To explain how cloning can be used in photo editing. KS2: CO 6, 7</p> <p>Big Idea (Aspect):</p> <p>Place (Digital world) Materials (Software) Creativity (Creation)</p>	<p>Creating media – Photo Editing</p> <p>Lesson 4:</p> <p>LO: To explain that images can be combined. KS2: CO 6, 7</p> <p>Big Idea (Aspect):</p> <p>Place (Digital world) Materials (Software) Creativity (Creation)</p>	<p>Creating media – Photo Editing</p> <p>Lesson 5:</p> <p>LO: To combine images for a purpose. KS2: CO 6, 7</p> <p>Big Idea (Aspect):</p> <p>Place (Digital world) Materials (Software) Creativity (Creation)</p>	<p>Creating media – Photo Editing</p> <p>Lesson 6:</p> <p>LO: To evaluate how changes can improve an image. KS2: CO 6, 7</p> <p>Big Idea (Aspect):</p> <p>Place (Digital world) Materials (Software) Creativity (Creation)</p>



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Term 6	<p>Programming B – Repetition in games</p> <p>Lesson 1:</p> <p>LO: To develop the use of count-controlled loops in a different programming environment KS2: CO 1, 2, 3</p> <p>Big Idea (Aspect):</p> <p>Investigation (Data and computational thinking) Processes (Physical Interaction)</p>	<p>Programming B – Repetition in games</p> <p>Lesson 2:</p> <p>LO: To explain that in programming there are infinite loops and count controlled loops KS2: CO 1, 2, 3</p> <p>Big Idea (Aspect):</p> <p>Investigation (Data and computational thinking) Processes (Physical Interaction)</p>	<p>Programming B – Repetition in games</p> <p>Lesson 3:</p> <p>LO: To develop a design that includes two or more loops which run at the same time KS2: CO 1, 2, 3</p> <p>Big Idea (Aspect):</p> <p>Investigation (Data and computational thinking) Processes (Physical Interaction)</p>	<p>Programming B – Repetition in games</p> <p>Lesson 4:</p> <p>LO: To modify an infinite loop in a given program KS2: CO 1, 2, 3</p> <p>Big Idea (Aspect):</p> <p>Investigation (Data and computational thinking) Processes (Physical Interaction)</p>	<p>Programming B – Repetition in games</p> <p>Lesson 5:</p> <p>LO: To design a project that includes repetition KS2: CO 1, 2, 3</p> <p>Big Idea (Aspect):</p> <p>Investigation (Data and computational thinking) Processes (Physical Interaction)</p>	<p>Programming B – Repetition in games</p> <p>Lesson 6:</p> <p>LO: To create a project that includes repetition KS2: CO 1, 2, 3</p> <p>Big Idea (Aspect):</p> <p>Investigation (Data and computational thinking) Processes (Physical Interaction)</p>
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