



## Computing Progression Map (Years 1-6)

Our discrete **computing curriculum** contains everything you need to teach computing at **key stages 1 and 2**, including lesson plans, slides, worksheets and assessment. All of the content has been created by subject experts, based on the latest **pedagogical research**. It also provides an innovative progression framework where computing content (concepts, knowledge, skills, and objectives) has been organised into interconnected networks we call **learning graphs**. **Summative assessments** for all KS2 units are also there to ensure that skills can be measured and evaluated effectively.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 1</b>	<a href="#">Computing systems and networks – Technology around us</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Creating media – Digital painting</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Creating media – Digital writing</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Data and information – Grouping data</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Programming A – Moving a robot</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Programming B – Introduction to animation</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>
<b>Resources Software/ Hardware</b>	<ul style="list-style-type: none"> <li>• Mouse/ keyboard</li> <li>• Paintz <a href="#">paintz.app</a></li> </ul>	<ul style="list-style-type: none"> <li>• Microsoft Paint</li> <li>• Paintz <a href="#">paintz.app</a></li> <li>• Other appropriate digital painting program</li> </ul>	<ul style="list-style-type: none"> <li>• Google Docs</li> <li>• Microsoft Word</li> <li>• Pages App</li> <li>• Other appropriate digital program</li> </ul>	<ul style="list-style-type: none"> <li>• Google Docs</li> <li>• Google Slides</li> <li>• Pages App</li> <li>• Other appropriate digital program</li> </ul>	<ul style="list-style-type: none"> <li>• Beebots</li> </ul>	<ul style="list-style-type: none"> <li>• Scratch Junior</li> </ul>
<b>Year 2</b>	<a href="#">Computing systems and networks – IT around us</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Creating media – Digital photography</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Creating media – Making music</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Data and information – Pictograms</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Programming A – Robot algorithms</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>	<a href="#">Programming B – An introduction to quizzes</a> No. of lessons: 6 Overview: <a href="#">Unit guide</a>  Skills Progression: <a href="#">Learning graph</a>
<b>Resources Software/ Hardware</b>	<ul style="list-style-type: none"> <li>• Unplugged</li> <li>• Google Slide sorting activity</li> </ul>	<ul style="list-style-type: none"> <li>• Digital camera device</li> <li>• Tablets</li> <li>• <a href="#">Pixlr</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Chrome Music Lab</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">J2E Pictogram</a></li> </ul>	<ul style="list-style-type: none"> <li>• Beebots</li> </ul>	<ul style="list-style-type: none"> <li>• Scratch Junior</li> </ul>

<p><b>Year 3</b></p>	<p><a href="#">Computing systems and networks – Connecting computers</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Creating media – Animation</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Creating media – Desktop publishing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Data and information – Branching databases</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Programming A – Sequence in music</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Programming B – Events and actions</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>
<p><b>Resources / Apps</b></p>	<ul style="list-style-type: none"> <li>• Unplugged activity</li> <li>• Online paint app e.g. paintz.app (L3)</li> </ul>	<ul style="list-style-type: none"> <li>• Tablets</li> <li>• iMotion App</li> </ul>	<ul style="list-style-type: none"> <li>• Adobe Spark (free, requires educator sign up)</li> <li>• Google Slides/ Docs (adapt lessons)</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">J2E Branching</a></li> </ul>	<ul style="list-style-type: none"> <li>• Scratch</li> </ul>	<ul style="list-style-type: none"> <li>• Scratch</li> </ul>
<p><b>Year 4</b></p>	<p><a href="#">Computing systems and networks – The Internet</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Creating media – Audio editing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Creating media – Photo editing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Data and information – Data logging</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Programming A – Repetition in shapes</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Programming B – Repetition in games</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>

<b>Resources Software/ Hardware</b>	<ul style="list-style-type: none"> <li>• Online services</li> </ul>	<ul style="list-style-type: none"> <li>• Audacity</li> <li>• Adapt lessons with Apple Garageband App</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Paint.net</a></li> </ul>	<ul style="list-style-type: none"> <li>• Data loggers</li> <li>• Apps on tablets</li> <li>• Download Google Science Journal App</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Turtle Academy</a></li> </ul>	<ul style="list-style-type: none"> <li>• Scratch</li> </ul>
<b>Year 5</b>	<p><a href="#">Computing systems and networks – Sharing information</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Creating media – Vector drawing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Creating media – Video editing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Data and information – Flat-file databases</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Programming A – Selection in physical computing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Programming B – Selection in quizzes</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>
<b>Resources Software/ Hardware</b>	<ul style="list-style-type: none"> <li>• Google Slides</li> </ul>	<ul style="list-style-type: none"> <li>• Google Drawings OR</li> <li>• MS Publisher or MS PowerPoint</li> <li>• Other appropriate program</li> </ul>	<ul style="list-style-type: none"> <li>• Recording device</li> <li>• Microsoft Movie Maker</li> <li>• Other software e.g. iMovie</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">J2E Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Crumbles,</li> <li>• Crumble accessories,</li> <li>• Crumble software (based on Scratch environment)</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Scratch</li> </ul>

<p><b>Year 6</b></p>	<p><a href="#">Computing systems and networks – Communication</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Creating media – 3D Modelling</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Creating media – Web page creation</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>	<p><a href="#">Data and information – Spreadsheets</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Programming A – Variables in games</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Summative assessment</a> <a href="#">Summative answers</a></p>	<p><a href="#">Programming B – Sensing</a></p> <p>No. of lessons: 6 Overview: <a href="#">Unit guide</a></p> <p>Skills Progression: <a href="#">Learning graph</a></p> <p>Assessment: <a href="#">Rubric</a></p>
<p><b>Resources Software/ Hardware</b></p>	<ul style="list-style-type: none"> <li>• Online Websites</li> </ul>	<ul style="list-style-type: none"> <li>• TinkerCAD</li> </ul>	<ul style="list-style-type: none"> <li>• Google Sites</li> </ul>	<ul style="list-style-type: none"> <li>• Google Sheets</li> <li>• Microsoft Excel</li> <li>• Numbers App (iPad)</li> </ul>	<ul style="list-style-type: none"> <li>• Scratch</li> </ul>	<ul style="list-style-type: none"> <li>• Microbit</li> <li>• <a href="#">Microbit Emulator</a></li> </ul>