

## Computing Curriculum – Hardware and Software Requirements

### Year 1

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Strand	Computing Systems and Networks	Creating Media	Creating Media	Data and Information	Programming A	Programming B
Topic	Technology Around Us	Digital Painting	Digital Writing	Grouping Data	Moving a Robot	Programming Animations
Hardware	<b><u>Recommended</u></b> Desktop Computer  <b><u>Alternative</u></b> iPad	<b><u>Recommended</u></b> Desktop Computer  <b><u>Alternative</u></b> iPad	<b><u>Recommended</u></b> Desktop Computer  <b><u>Alternative</u></b> iPad	<b><u>Recommended</u></b> Desktop Computer	Fixed movement floor robot, e.g. Bee-Bot or Blue-Bot	<b><u>Recommended</u></b> iPad  <b><u>Alternative</u></b> Desktop Computer
Software	Paintz App online  <a href="https://paintz.app/">https://paintz.app/</a>	Microsoft Paint	Google Docs	Google Slides	n/a	ScratchJr App on iPad

### Year 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Strand	Computing Systems and Networks	Creating Media	Creating Media	Data and Information	Programming A	Programming B
Topic	Information and Technology Around Us	Digital Photography	Making Music	Pictograms	Robot Algorithms	Programming Quizzes
Hardware	<b><u>Recommended</u></b> Desktop Computer	<b><u>Recommended</u></b> Desktop Computer Digital Camera  <b><u>Alternative</u></b> iPad	<b><u>Recommended</u></b> Desktop Computer  <b><u>Alternative</u></b> iPad	<b><u>Recommended</u></b> Desktop Computer  <b><u>Alternative</u></b> iPad	Fixed movement floor robot, e.g. Bee-Bot or Blue-Bot	<b><u>Recommended</u></b> iPad  <b><u>Alternative</u></b> Desktop Computer

Software	Google Slides	Pixlr (online or app on iPad) <a href="http://pixlr.com/x/">pixlr.com/x/</a>	Chrome Music Lab <a href="https://musiclab.chromeexperiments.com/">https://musiclab.chromeexperiments.com/</a>	j2e Pictogram Tool <a href="https://www.j2e.com/jit5#pictogram">https://www.j2e.com/jit5#pictogram</a>	n/a	ScratchJr App on iPad
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### Year 3

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Strand	Computing Systems and Networks	Creating Media	Creating Media	Data and Information	Programming A	Programming B
Topic	Connecting Computers	Stop-frame Animation	Desktop Publishing	Branching Databases	Sequencing Sounds	Events and Actions in Programs
Hardware	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> iPad  <b>Alternative</b> Desktop Computer	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad
Software	Microsoft Paint  JSPaint online <a href="https://jspaint.app/">https://jspaint.app/</a>	iMotion app on iPad	Adobe Spark	j2data Branch and Pictogram  <a href="https://www.j2e.com/jit5#branch">https://www.j2e.com/jit5#branch</a> <a href="https://www.j2e.com/jit5#pictogram">https://www.j2e.com/jit5#pictogram</a>	Scratch  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>	Scratch  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>

### Year 4

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Strand	Computing Systems and Networks	Creating Media	Creating Media	Data and Information	Programming A	Programming B
Topic	The Internet	Audio Editing	Photo Editing	Data Logging	Repetition in Shapes	Repetition in Games
Hardware	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer Data loggers	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad
Software	Various websites	Audacity downloaded to PCs	Paint.NET		<a href="https://turtleacademy.com/playground">https://turtleacademy.com/playground</a>	Scratch  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>

## Year 5

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Strand	Computing Systems and Networks	Creating Media	Creating Media	Data and Information	Programming A	Programming B
Topic	Sharing Information	Vector Drawing	Video Editing	Flat-file Databases	Selection in Physical Computing	Selection in Quizzes
Hardware	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer Crumble	<b>Recommended</b> Desktop Computer
Software	Google Slides	Google Drawings	Microsoft Photos	j2data Database <a href="https://www.j2e.com/database/">https://www.j2e.com/database/</a>	Scratch  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>	Scratch  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>

## Year 6

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Strand	Computing Systems and Networks	Creating Media	Creating Media	Data and Information	Programming A	Programming B
Topic	Internet Communication	3D Modelling	Webpage Creation	Introduction to Spreadsheets	Variables in Games	Sensing
Hardware	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer  <b>Alternative</b> iPad	<b>Recommended</b> Desktop Computer	<b>Recommended</b> Desktop Computer micro:bit  <b>Alternative</b> iPad
Software		Tinkercad <a href="https://www.tinkercad.com/">https://www.tinkercad.com/</a>	Google Slides	Google Sheets	Scratch  <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a>	Microsoft MakeCode <a href="https://makecode.microbit.org/">https://makecode.microbit.org/</a>