

St Helen's Catholic Primary School  
Computing Curriculum Map 2017 – 2018



Topics that lend themselves to supporting British Values - **Democracy** **The Rule of Law** **Individual Liberty** **Mutual Respect** **Tolerance** 

**Subject content - Key stage 1**

Pupils should be taught to:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug (test) simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

	Autumn 1 Level 1	Autumn 2 – Level 1	Spring 1 Level 2	Spring 2 Level 2	Summer 1 Level 3	Summer 2 Level 3
Year 1	<b>Computing Programme of Study Focus –</b>  <a href="#">Online Safety</a> <a href="#">Kidztype.com</a>	<b>Computing Programme of Study Focus –</b>  <i>1.1 We are treasure hunters (using programmable toys)</i> <i>Use of Ipads</i> <b>Screenshot</b>	<b>Computing Programme of Study Focus –</b>  1.3 We are painters (Illustrating an eBook)  <b>Printing</b>	<b>Computing Programme of Study Focus –</b>  <i>1.6 We are celebrating (Creating a card electronically)</i>  <b>Copy &amp; Paste</b>	<b>Computing Programme of Study Focus –</b>  <i>1.2 We are TV chefs (Filming a recipe)</i> <i>Use of Ipads</i>  <b>Saving documents</b>	<b>Computing Programme of Study Focus –</b>  <i>1.5 We are storytellers (producing a talking book)</i> <i>Use of 'voice' on Ipads</i>  <b>Saving documents</b>
Year 2	<b>Computing Programme of Study Focus –</b>  <a href="#">Online Safety</a> <a href="#">Kidztype.com</a>	<b>Computing Programme of Study Focus –</b>  <i>2.1 We are Astronauts (programming on screen)</i>  <b>Screenshot</b>	<b>Computing Programme of Study Focus –</b>  <i>2.4 We are researchers (researching a topic)</i> Link to GFL  <b>Saving</b>	<b>Computing Programme of Study Focus –</b>  <i>2.3 We are photographers (taking, selecting and editing digital images)</i>  <b>Printing</b>	<b>Computing Programme of Study Focus –</b>  <i>2.2 We are games testers (Exploring how computer games work)</i>  <b>Screenshot</b>	<b>Computing Programme of Study Focus –</b>  <i>2.5 We are detectives (Communicating clues)</i>  <b>Copy &amp; Paste</b>

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**Subject content - Key stage 2**

Pupils should be taught to:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	Autumn 1 <b>Level 2</b>	Autumn 2 <b>Level 2</b>	Spring 1 <b>Level 3</b>	Spring 2 <b>Level 3</b>	Summer 1 <b>Level 4</b>	Summer 2 <b>Level 4</b>
Year 3	Computing Programme of Study Focus – <b>Online Safety</b> 3.5 We are communicators (Communicating safely on the internet) <b>Kidztype.com</b>	Computing Programme of Study Focus – 3.1 We are programmers (Programming an animation) <b>Screenshot</b>	Computing Programme of Study Focus - 3.2 We are bug fixers (Finding and correcting bugs in programs) <b>Saving documents</b>	Computing Programme of Study Focus – 3.3 We are presenters (Videoing a performance) <b>Copy &amp; Paste</b>	Computing Programme of Study Focus – 3.4 We are network engineers(Exploring computer networks including the internet) <b>Copy &amp; Paste</b>	<b>Computing Programme of Study Focus –</b> 3.6 We are opinion pollsters (collecting and analysing data) <b>Printing</b>
Year 4	Computing Programme of Study Focus – <b>Online Safety</b> <b>Kidztype.com</b>	<b>Computing Programme of Study Focus –</b> 4.2 We are toy makers (prototyping an interactive toy) <b>Screenshot</b>	<b>Computing Programme of Study Focus –</b> 4.1 We are software developers (Developing a simple educational game) <b>Saving</b>	<b>Computing Programme of Study Focus –</b> 4.6 We are Meteorologists Link with Geography <b>Copy &amp; Paste</b>	<b>Computing Programme of Study Focus –</b> 4.3 We are musicians (producing digital music) <b>Saving</b>	<b>Programme of Study Focus –</b> 4.5 We are co-authors (producing a wiki) <b>Printing</b>
Year 5	Computing Programme of Study Focus – <b>Online Safety</b> 5.4 We are web developers (creating a web page about cyber safety) <b>Kidztype.com</b>	<b>Computing Programme of Study Focus –</b> 5.2 We are cryptographers (cracking codes) <b>Saving</b>	<b>Computing Programme of Study Focus –</b> 5.1 We are game developers(developing an interactive game) <b>Screenshots</b>	<b>Computing Programme of Study Focus –</b> 5.3 We are artists (Fusing geometry and art) <b>Printing</b>	<b>Computing Programme of Study Focus –</b> 5.5 We are bloggers (Sharing experiences and opinions) <b>Copy &amp; Paste</b>	<b>Computing Programme of Study Focus –</b> 5.6 We are architects (Creating a virtual space) <b>Saving</b>
Year 6	Computing Programme of Study Focus – <b>Online Safety</b> <b>Kidztype.com</b>	Computing Programme of Study Focus – 6.1 We are app planners (planning the creation of a mobile app) <b>Screenshots</b>	Computing Programme of Study Focus – 6.2 We are project managers (developing project manager skills) <b>Saving</b>	<b>Computing Programme of Study Focus –</b> 6.3 We are market researchers (researching the app market) <b>Printing</b>	<b>Computing Programme of Study Focus –</b> 6.4 We are interface designers  (designing an interface for an app) <b>Copy &amp; Paste</b>	<b>Computing Programme of Study Focus –</b> 6.5 We are app developers (developing a simple mobile app) <b>Screenshot</b>

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