

# Latchford St James Church of England Primary School

## Progression of Skills for Computing – Year 1



Year 1	Digital Literacy	Computer Science	Information Technology
<p><b>National Curriculum Statements</b></p>	<p>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.</p> <p>Recognise common uses of information technology beyond school.</p>	<p>Use logical reasoning to predict the behaviour of simple programs.</p> <p>Create and debug simple programs.</p> <p>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p>	<p>Using technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>
<p><b>Skills</b></p>	<p>I understand I need to keep my information (such as my usernames and passwords) safe and private, and to show this when using a digital device.</p> <p>I know where to go for help if I am worried about something I see on the internet.</p> <p>I know that the internet contains a large amount of information.</p> <p>I can, with support, use a search engine to find information.</p> <p>I know that a computer can represent real situations.</p>	<p>I can make very simple programs.</p> <p>I know what algorithms are.</p> <p>I can debug simple algorithms with support.</p>	<p>I can use technology with support to create and store items such as text and images.</p> <p>I can use a simple search to find files and information.</p> <p>I can use key words to describe objects (font, size, colour).</p> <p>I can use basic editing skills.</p>

# Latchford St James Church of England Primary School

## Progression of Skills for Computing – Year 2



<u>Year 2</u>	Digital Literacy	Computer Science	Information Technology
<p><b>National Curriculum Statements</b></p>	<p>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.</p> <p>Recognise common uses of information technology beyond school.</p>	<p>Use logical reasoning to predict the behaviour of simple programs.</p> <p>Create and debug simple programs.</p> <p>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p>	<p>Using technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>
<p><b>Skills</b></p>	<p>I know where to go for help if I am worried about something I see on the internet.</p> <p>I understand that some content and contact on the internet is unsafe, and I know where to go for help. (Children are beginning to recognise types of unsafe content/contact)</p> <p>I understand the importance of computers and the internet for communication.</p> <p>I know that technology is used in everyday life in lots of different ways. (Children are developing this, and can discuss their ideas)</p>	<p>I can create simple programs independently and develop my strategies to find bugs.</p> <p>I can begin to predict outcomes in my algorithms.</p> <p>I can explain that an algorithm is a set of instructions to complete a task.</p> <p>I can explain what debugging is and find errors in my work.</p> <p>I know that programs will only work by following a precise set of instructions.</p>	<p>I can use technology with purpose, to create, store, organise, retrieve and manipulate digital content.</p> <p>I am beginning to learn how to create digital files such as presentations and graphs.</p> <p>I can navigate around areas of the internet and can carry out simple searches.</p> <p>I am developing an understanding that not everything on the internet is the truth.</p> <p>I can confidently use basic editing skills.</p>

# Latchford St James Church of England Primary School

## Progression of Skills for Computing – Year 3



Year 3	Digital Literacy	Computer Science	Information Technology
<p><b>National Curriculum Statements</b></p>	<p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.</p> <p>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</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>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.</p>	<p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>
<p><b>Skills</b></p>	<p>I can use technology safely and with respect.</p> <p>I have a good understanding how to keep my information and that of others secure.</p> <p>I know it is important to report any worries I have if I see something whilst using the internet and other types of technology.</p>	<p>I can write algorithms and programs using simple sequence and repetition.</p> <p>I can use computational thinking strategies to solve problems and errors in my algorithms and programs.</p> <p>I can identify bugs in my algorithms.</p>	<p>I can use a variety of different computer software and devices to create digital content such as presentations, databases and graphs.</p> <p>I am able to develop my strategies for searching by using key words.</p> <p>I can collect, analyse and present data using a selection of software.</p>

	<p>I know some of the different ways I can report any concerns I have.</p> <p>I am developing an understanding of how to behave in an acceptable way online, and what types of behaviour is unacceptable.</p> <p>I know that a lot of information on the internet should not be trusted.</p> <p>I know I must confirm if something is trustworthy or not before I act.</p>	<p>I can use methods of communication, in particular emails (I can open, respond to and attach files to emails)</p>	<p>I can carry out simple searches independently using search engines, to retrieve digital content.</p>
--	--	---	---

# Latchford St James Church of England Primary School

## Progression of Skills in Computing – Year 4



Year 4	Digital Literacy	Computer Science	Information Technology
<p><b>National Curriculum Statements</b></p>	<p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.</p> <p>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</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>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</p>	<p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>
<p><b>Skills</b></p>	<p>I use technology responsibly, safely and with respect.</p> <p>I know how to keep my information secure, including my usernames and passwords.</p> <p>I know many different ways to report any concerns I have about something I experience on the internet and other types of technology.</p>	<p>I can plan and write more complex algorithms and programs using sequence, repetition and selection.</p> <p>I can further develop my computational thinking skills to debug my programs and algorithms.</p> <p>I have a simple understanding how search engines work.</p> <p>I can use inputs and outputs and control external devices such as sensors, motors or robots.</p>	<p>I can use a variety of software with increasing independence.</p> <p>I can create a range of digital content such as programs, databases and presentations.</p> <p>I understand the function, features and layout of a search engine.</p>

I have a good understanding of how to behave in an acceptable way online, and what behaviour is unacceptable.

I am developing strategies to work out if something I experience on the internet is trustworthy.

I am developing an awareness of what Copyright is.

I understand the difference between the internet and the World Wide Web.

I have a simple understanding of how computer networks work.

Latchford St James Church of England Primary School  
Progression of Skills for Computing – Year 5



<u>Year 5</u>	Digital Literacy	Computer Science	Information Technology
<p><b>National Curriculum Statements</b></p>	<p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.</p> <p>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</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>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</p>	<p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>
<p><b>Skills</b></p>	<p>I use technology safely, responsibly and in a respectful manner.</p> <p>I have good skills to identify types of content and contact on the internet that are risky.</p> <p>I am developing an understanding of what a 'digital footprint' is.</p> <p>I know many different ways to report my concerns about things I see or experience</p>	<p>I can design and write programs using sequence, repetition, selection and variables.</p> <p>I am developing an understanding of how to make more complex programs through the use of selection and repetition.</p> <p>I understand how search engines work.</p>	<p>I can select, use and combine a range of software for to use on different types of technological devices.</p> <p>I can create digital content such as programs, databases, spreadsheets and presentations.</p> <p>I can conduct effective searches using key words and phrases.</p> <p>I can create a simple spreadsheet to investigate real life problems.</p>

whilst using the internet and other types of technology.

I understand what behaviour is acceptable online and is what is unacceptable.

I can use strategies to work out if a source or piece of information online is trustworthy.

I understand what Copyright is.

I can use my computational thinking skills to plan algorithms, predicting how they might work and then correct any errors.

I have a good understanding how a computer network works.



**Latchford St James Church of England Primary School**  
Progression of Skills for Computing – Year 6



<u>Year 6</u>	<b>Digital Literacy</b>	<b>Computer Science</b>	<b>Information Technology</b>
<b>National Curriculum Statements</b>	<p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concern about content and contact.</p> <p>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</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>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</p>	<p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>
<b>Skills</b>	<p>I can use different types of technology competently, safely, responsibly and with respect.</p> <p>I can identify risks involved with certain online content and contact.</p> <p>I understand the importance of using a 'strong' password and can create one.</p>	<p>I know how a search engine works and what 'ranking' is.</p> <p>I can design and create more complex programs using sequence, repetition, selection and variables appropriately.</p> <p>I can use computational thinking skills to evaluate my work and correct errors in my algorithms.</p>	<p>I can independently select, use and combine a wide range of software on a variety of different technological devices.</p> <p>I can design and create a range of digital content such as programs, spreadsheets, databases and presentations.</p> <p>I can use advanced searches.</p>

	<p>I know many different ways of reporting any concerns I have about things I see and experience on the internet.</p> <p>I know how to behave in an acceptable way online, and what behaviour is unacceptable. I can use strategies to confirm if a source or piece of information on the internet is trustworthy and accurate.</p> <p>I understand what Copyright is, what plagiarism is and how this links to my work.</p>	<p>I know how different computer networks work, including the roles of components.</p> <p>I understand the benefits of computer networks for communication.</p> <p>I know what the difference is between the internet and internet services.</p>	<p>I can create spreadsheet models to investigate real life problems and make predictions about these based on prior knowledge.</p>
--	--	--	---