



## Computing Curriculum Milestones

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<b>Year 1</b>	Create a simple algorithm with up to 4 commands to control movement of a Bee-Bot or Sprite in Scratch Jr. Predict the outcome and debug
<b>Year 1</b>	Create and debug simple programs with up to 4 commands using the four direction commands to control a Bee-bot or Sprite in Scratch Jr.
<b>Year 1</b>	Use logical reasoning to predict the behaviour of simple programs with up to 4 commands
<b>Year 1</b>	Use a range of age appropriate programs to create, edit, store and retrieve digital content
<b>Year 1</b>	Recognise common uses of technology
<b>Year 1</b>	Understand that rules are needed to keep us safe and healthy when using technology in school. Able to provide an example of these rules and explain how it benefits us
<b>Year 1</b>	Use a password to log on, open and close programs
<b>Year 1</b>	Save and retrieve work
<b>Year 2</b>	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
<b>Year 2</b>	Create and debug simple programs
<b>Year 2</b>	Use logical reasoning to predict the behaviour of simple programs
<b>Year 2</b>	Use technology purposefully to create, organise, store, manipulate and retrieve digital content
<b>Year 2</b>	Recognise common uses of information technology
<b>Year 2</b>	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
<b>Year 3</b>	Design, write and debug programs that include sequencing using Scratch; solve problems by decomposing them into smaller parts
<b>Year 3</b>	Use sequence in programs using Scratch. Understand that digital devices accept inputs, follow a process and produce outputs
<b>Year 3</b>	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs when using Scratch to create code that includes sequence
<b>Year 3</b>	Understand what a computer network is and the role of each network component. Identify the benefits of computer networks
<b>Year 3</b>	Use search technologies effectively, understand that multiple key words are needed to narrow searches
<b>Year 3</b>	Use a range of techniques to create a stop-frame animation. Use desktop publishing software to create a magazine front cover. Create a digital branching database using the online database tool j2data
<b>Year 3</b>	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact



<b>Year 4</b>	Design, write and debug programs that include repetition using Logo and Scratch; solve problems by decomposing them into smaller parts
<b>Year 4</b>	Use repetition in programs using Scratch and Logo. Understand that sensors are input devices that can be used for data collection
<b>Year 4</b>	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs when using Scratch and Logo to create code that includes repetition
<b>Year 4</b>	Understand what the Internet and the World Wide Web are and the benefits they provide. Understand that content is created, owned and shared by people
<b>Year 4</b>	Use search technologies effectively and evaluate the reliability of digital content and the consequences of unreliable content
<b>Year 4</b>	Create, save and edit audio files to produce a Podcast. Understand how digital images can be edited, resaved and reused. Use a sensor to monitor the environment and collect data. Use a computer to review and analyse the data
<b>Year 4</b>	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
<b>Year 5</b>	Design, write and debug programs that include selection using Scratch and physical computing; solve problems by decomposing them into smaller parts
<b>Year 5</b>	Use selection in programs using Scratch and physical computing. Understand the input, output and process aspects of different real-world systems
<b>Year 5</b>	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs when using Scratch and physical computing to create code that includes selection
<b>Year 5</b>	Understand how data is transferred and that connections between computers allow us to share information and work collaboratively regardless of location
<b>Year 5</b>	Use advanced search techniques such as AND and OR to refine data selection
<b>Year 5</b>	Use the Google drawings app to create vector images made up of shapes. Capture and edit video images to create a short video. Use j2data sample databases to organise data in records and to create graphs and charts to solve problems
<b>Year 5</b>	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
<b>Year 6</b>	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
<b>Year 6</b>	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output
<b>Year 6</b>	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
<b>Year 6</b>	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



<b>Year 6</b>	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
<b>Year 6</b>	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
<b>Year 6</b>	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact