

## Computing Long Term Plan 2018-2019

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 1</b>	<p><b>Rising Stars 1.1</b> We are treasure hunters Using programmable Toys</p> <ul style="list-style-type: none"> <li>• Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>• Create and debug simple programs.</li> <li>• Use logical reasoning to predict the behaviour of simple programs.</li> <li>• Recognise common uses of information technology beyond school.</li> </ul>	<p><b>Rising Stars 1.2</b> We are TV chefs Filming the steps of a recipe</p> <ul style="list-style-type: none"> <li>• Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• Use logical reasoning to predict the behaviour of simple programs.</li> </ul>	<p><b>Rising Stars 1.3</b> We are painters Illustrating an eBook</p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• 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.</li> </ul>	<p><b>Rising Stars 1.4</b> We are collectors Finding images using the web</p> <ul style="list-style-type: none"> <li>• Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• 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.</li> <li>• Recognise common uses of information technology beyond school.</li> </ul>	<p><b>Rising Stars 1.5</b> We are storytellers Producing a talking book</p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• Use technology safely and respectfully ...</li> </ul>	<p><b>Rising Stars 1.6</b> We are celebrating Creating a card digitally</p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• 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.</li> </ul>

<p><b>Year</b> <b>2</b></p>	<p><b>Rising Stars</b> <b>2.1</b> <b>We are astronauts</b> <b>Programming on screen</b></p> <ul style="list-style-type: none"> <li>• Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>• Create and debug simple programs.</li> <li>• Use logical reasoning to predict the behaviour of simple programs.</li> </ul>	<p><b>Rising Stars</b> <b>2.2</b> <b>We are games testers</b> <b>Exploring how computer games work</b></p> <ul style="list-style-type: none"> <li>• Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>• Use logical reasoning to predict the behaviour of simple programs.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• Use technology safely and respectfully, keeping personal information private.</li> </ul>	<p><b>Rising Stars</b> <b>2.3</b> <b>We are photographers</b> <b>Taking better photos</b></p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• 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.</li> </ul>	<p><b>Rising Stars</b> <b>2.4</b> <b>We are researchers</b> <b>Researching a topic</b></p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• 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.</li> </ul>	<p><b>Rising Stars</b> <b>2.5</b> <b>We are detectives</b> <b>Collecting clues</b></p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• 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.</li> </ul>	<p><b>Rising Stars</b> <b>2.6</b> <b>We are zoologists</b> <b>Collecting data about bugs</b></p> <ul style="list-style-type: none"> <li>• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>• Recognise common uses of information technology beyond school.</li> <li>• 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.</li> </ul>
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<p><b>Year</b> <b>3</b></p>	<p><b>Rising Stars</b> <b>3.1</b> <b>We are programmers</b> <b>Programming an Animation</b></p> <ul style="list-style-type: none"> <li>• Design, write and debug programs that accomplish specific goals; solve problems by decomposing them into smaller parts.</li> <li>• Use sequence ... in programs; work with variables and various forms of input and output.</li> <li>• Use logical reasoning to detect and correct errors in algorithms and programs.</li> <li>• Select, use and combine a variety of software ... to design and create ... content that accomplish(es) given goals, including ... presenting ... information.</li> </ul>	<p><b>Rising Stars</b> <b>3.2</b> <b>We are bug fixers</b> <b>Finding and correcting bugs in programs</b></p> <ul style="list-style-type: none"> <li>• Debug programs that accomplish specific goals.</li> <li>• Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> </ul>	<p><b>Rising Stars</b> <b>3.3</b> <b>We are presenters</b> <b>Videoring performance</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Work with various forms of input and output.</li> <li>• Use technology safely, respectfully and responsibly.</li> </ul>	<p><b>Rising Stars</b> <b>3.4</b> <b>We are vloggers</b> <b>Making and sharing a short screencast presentation</b></p> <ul style="list-style-type: none"> <li>• Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web.</li> <li>• Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>• Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of content that accomplish given goals, including collecting, analysing, evaluating and presenting information.</li> <li>• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<p><b>Rising Stars</b> <b>3.5</b> <b>We are communicators</b> <b>Communicating safely on the internet</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<p><b>Rising Stars</b> <b>3.6</b> <b>We are opinion pollsters</b> <b>Collecting and analysing data</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul>
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<p><b>Year</b> <b>4</b></p>	<p><b>Rising Stars</b> <b>4.1</b> <b>We are software developers</b> <b>Developing a simple educational game</b></p> <ul style="list-style-type: none"> <li>• Design, write and debug programs that accomplish specific goals.</li> <li>• Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> </ul>	<p><b>Rising Stars</b> <b>4.2</b> <b>We are toy designers</b> <b>Prototyping an interactive toy</b></p> <ul style="list-style-type: none"> <li>• Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems.</li> <li>• Use sequence, selection, and repetition in programs; work with various forms of input and output.</li> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> </ul>	<p><b>Rising Stars</b> <b>4.3</b> <b>We are musicians</b> <b>Producing digital music</b></p> <ul style="list-style-type: none"> <li>• Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>• Understand computer networks including the internet; ... and the opportunities they offer for communication and collaboration.</li> <li>• Be discerning in evaluating digital content.</li> <li>• 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.</li> <li>• Use technology safely, respectfully and responsibly.</li> </ul>	<p><b>Rising Stars</b> <b>4.4</b> <b>We are HTML editors</b> <b>Editing and writing HTML</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Use technology safely, respectfully and responsibly; know a range of ways to report concerns and unacceptable behaviour.</li> <li>• Use and combine a variety of software (including internet services) to accomplish given goals, including presenting information.</li> </ul>	<p><b>Rising Stars</b> <b>4.5</b> <b>We are co-authors</b> <b>Producing a wiki</b></p> <ul style="list-style-type: none"> <li>• Solve problems by decomposing them into smaller parts.</li> <li>• 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.</li> <li>• Use search technologies effectively.</li> <li>• Use ... a variety of software (including internet services) ... to ... create ... content ... including ... presenting information.</li> <li>• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<p><b>Rising Stars</b> <b>4.6</b> <b>We are meteorologists</b> <b>Presenting the weather</b></p> <ul style="list-style-type: none"> <li>• Work with variables and various forms of input and output.</li> <li>• Use logical reasoning to explain how some simple algorithms work.</li> <li>• Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>• 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.</li> </ul>
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<p><b>Year</b> 5</p>	<p><b>Rising Stars edited unit</b> 5.1 <b>We are coding explorers</b> <b>Exploring how hardware can be controlled by software</b></p> <ul style="list-style-type: none"> <li>• Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>• Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>• Select, use and combine a variety of software.</li> </ul>	<p><b>Rising Stars edited unit</b> 5.2 <b>We are cryptographers</b> <b>Cracking codes</b></p> <ul style="list-style-type: none"> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>• 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.</li> <li>• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<p><b>Rising Stars</b> 5.3 <b>We are artists</b> <b>Fusing geometry and art</b></p> <ul style="list-style-type: none"> <li>• Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>• 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.</li> </ul>	<p><b>Rising Stars</b> 5.4 <b>We are web developers</b> <b>Creating a website about cyber safety</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>• 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.</li> <li>• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<p><b>Rising Stars</b> 5.5 <b>We are bloggers</b> <b>Sharing experiences and Opinions</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> <li>• ... be discerning in evaluating digital content.</li> </ul>	<p><b>Rising Stars</b> 5.6 <b>We are architects</b> <b>Creating a virtual space</b></p> <ul style="list-style-type: none"> <li>• Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>• 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.</li> </ul>
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<p><b>Year</b> <b>6</b></p>	<p><b>Rising Stars edited unit</b> <b>6.1</b> <b>We are adventure gamers</b> <b>Making a game</b></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. 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.</p>	<p><b>Rising Stars edited unit</b> <b>6.2</b> <b>We are computational thinkers</b> <b>Mastering algorithms for searching, sorting and mathematics.</b></p> <p>Design, write and debug programs that accomplish specific goals. 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.</p>	<p><b>Rising Stars</b> <b>6.3</b> <b>We are advertisers</b> <b>Creating a short television advert</b></p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. 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. – could this be stop motion animation?</p>	<p><b>Rising Stars</b> <b>6.4</b> <b>We are network technicians</b> <b>Exploring computer networks including the internet</b></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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p><b>Rising Stars</b> <b>6.5 We are travel writers</b> <b>Using media and mapping to document a trip</b></p> <p>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 identify a range of ways to report concerns about content and contact.</p>	<p><b>Rising Stars</b> <b>6.6</b> <b>We are publishers</b> <b>Creating a year book or magazine</b></p> <p>Understand computer networks including the internet 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.</p>
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