

## Standhill Infants Subject Progression - Computing

### Being a Computing Expert

	F2	Yr. 1	Yr.2
<b>SKILLS</b>			
<b>Computer Science (Algorithms and Programming)</b>	<p>Begin to explore a range of control toys and devices.</p>	<p>Explore a range of control toys and devices.</p> <p>To create a series of instructions.</p> <p>To can plan a journey for a programmable toy.</p> <p>To record instructions simple using pictures.</p> <p>To talk about what will happen when instructions are given in a sequence.</p>	<p>To be able to use a range of instructions.</p> <p>To be able to test and amend a set of instructions.</p> <p>To be able to find errors and amend (debug).</p> <p>To make predictions about what will happen when a command is entered (logical reasoning).</p> <p>To begin to answer 'What if' questions using a simulation.</p>
<b>Information Technology</b>	<p>To begin to explore a range of digital devices.</p> <p>To create simple content on a device.</p>	<p>To create digital content on a device.</p> <p>To store digital content.</p> <p>To retrieve and select images on a computer/iPad.</p>	<p>To retrieve and manipulate digital content.</p> <p>To begin to develop basic editing skills, adding sound, graphics or text.</p>

		<p>To use a digital device to take a picture or record their work.</p> <p>To become familiar with a keyboard and mouse.</p>	<p>To develop awareness of keyboard layout and increased confidence in typing.</p>
<b>Digital Literacy</b>	<p>To begin to recognise a range of digital devices.</p> <p>To be able to interact with age-appropriate software.</p>	<p>To be able to use an age-appropriate website.</p> <p>Follow age-appropriate links provided by the teacher to research information.</p> <p>To begin to know what information should be kept private.</p>	<p>To begin to use an appropriate search engine.</p> <p>I can use a password to access a secure network.</p> <p>To explain what personal information is and why it should not be shared online.</p> <p>To recognise how technology is used in school and outside of school.</p>
<b>E-Safety</b>	<p>To recognise that it's important to be nice online.</p> <p>To begin to recognise rules to keep us safe when using technology.</p>	<p>To recognise there might be people online who could make me feel sad, embarrassed or upset.</p>	<p>To explain how other people's identity online can be different to their identity in real life.</p> <p>I can explain why some information online may not be true.</p>

		<p>To give examples of what to do if you find something inappropriate online.</p> <p>To describe how to behave online in ways that do not upset others and can give examples.</p>	<p>To follow the school's internet safety rules.</p> <p>To use technology respectfully.</p>
<p><b>KEY KNOWLEDGE</b></p>	<p>To know that technology is used in places such as homes and schools.</p> <p><b><u>E-Safety:</u></b> To know that things people say online can make others feel sad.</p>	<p>An algorithm is a set of step-by-step instructions to solve a problem or complete a task.</p> <p>To know that programs require precise instructions.</p> <p><b><u>E-Safety:</u></b> To know who to tell when something happens online that makes them feel sad, worried, uncomfortable or frightened.</p> <p>To know that some information is personal and needs to be kept private.</p>	<p>A bug is an error or a mistake in a program</p> <p>Debugging means finding and correcting the mistake.</p> <p>To know the purpose of a range of digital devices.</p> <p><b><u>E-Safety:</u></b> To know that people online we don't know are strangers and are not always who they say they are.</p> <p>To know that not everything on the internet is true.</p> <p>To explain what passwords are and use them to keep content private and safe.</p>

<p><b><i>Key Vocabulary</i></b></p>	<p>iPad, laptop, keyboard,</p>	<p>Algorithm, input, pattern, record, save, passwords, privacy</p>	<p>Algorithm, bug, debug, code, input, repetition, save, edit, retrieve, passwords, privacy, delete. Logical reasoning.</p>
<p><b><i>Links with Learning Powers</i></b></p>	<p><b>Resilience:</b> Pupils will be making and reading challenging algorithms and debugging them.  <b>Respect:</b> Pupils will learn how to be respectful online and to others.  <b>Reciprocity:</b> Pupils will have opportunities to work in groups to create digital content, work on collaborative projects on coding software or unplugged activities.  <b>Reflectiveness:</b> Opportunities to reflect on their work to edit and manipulate content they or others have made.  <b>Resourcefulness:</b> Being resourceful by finding solutions to algorithms or using other digital devices to create content.</p>		