
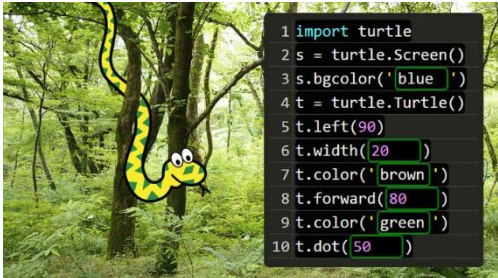






Subject: Computing	Year group: 5 Term: Spring 1	Title: Coding (LegoWeDo)
<p data-bbox="344 392 627 424">What should I know?</p> <ul data-bbox="237 475 775 995" style="list-style-type: none">• How to plan and write programs that accomplish specific goals• That computers can collect data from various inputs• What debugging is and how it can be used to achieve specific goals• That planning/ evaluation is a vital part of designing programs• What the terms sequence, repetition and selection mean and know how to use them in programs• How to use logical reasoning to detect/correct errors in programs 	<p data-bbox="987 392 1232 424">Facts I will learn ...</p> <ul data-bbox="860 475 1397 1391" style="list-style-type: none">• Know the meaning of the key terms: selection and decomposition.• Know the meaning of logical reasoning• Know that programs can be represented in different formats including written and diagrammatic• The need for precision when creating sequences to ensure reliability• That there are often different ways to solve the same problem or task.• That programming software can create simple and complex simulations• Explain what a strong password is and demonstrate how to create one• Explain how many free apps may read and share private information• Explain what app permissions are and give examples• Give examples of technology-specific forms of communication• Recognise that there are some	<p data-bbox="1621 392 1827 424">Key questions ...</p> <ul data-bbox="1480 475 2018 1037" style="list-style-type: none">• What is the meaning of decomposition?• What is the meaning of selection?• What different formats can programs be presented in?• What does an unsuitable post look like?• What does a good password look like?• What permissions should we allow or disallow to apps and websites we use?• What are my rights when using technology? 

	<p>people online who may do me or my friends harm</p> <ul style="list-style-type: none">Describe some of the ways people may be involved in online communities and explain how they may collaborate with othersExplain how someone can get help if having problems and identify when to tell a trusted adultDemonstrate how to support others											
<p>Key Skills...</p> <ul style="list-style-type: none">To use repetition and selection in programsTo use variables in programsTo design and create programs using decompositionTo design programs to accomplish specific tasks or goalsTo use logical reasoning to develop systematic strategies that can be used to debug algorithms and programs <div><p>What is Programming?</p></div>	<p>Experiences that school may provide:</p> <ul style="list-style-type: none">The opportunity to take part in both practical and computer based programming activities 	<table><tr><th>Key vocab</th><th>Definition</th></tr><tr><td>Selection</td><td>Selection is a decision or question.</td></tr><tr><td>Decomposition</td><td>Breaking a problem down into smaller pieces.</td></tr><tr><td>Debug</td><td>To find a problem in a code and fix it</td></tr><tr><td>Simulation</td><td>A computer simulation or a computer model is a computer program which attempts to simulate an abstract model of a particular system</td></tr></table>	Key vocab	Definition	Selection	Selection is a decision or question.	Decomposition	Breaking a problem down into smaller pieces.	Debug	To find a problem in a code and fix it	Simulation	A computer simulation or a computer model is a computer program which attempts to simulate an abstract model of a particular system
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Web links https://www.theschoolrun.com/best-coding-home-schooling-resources https://www.tynker.com/8/	Experiences that could be provided at home... <ul style="list-style-type: none"> • Enjoy online coding activities • Play simple logic and reasoning games 	Algorithm	A set of simple steps to solve a problem or complete a task.
		Geolocation	The process of identifying the location of a person or device through means of the internet
		Collaborate	To work alongside others.