

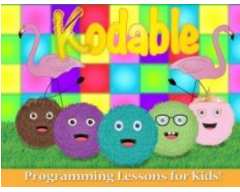

































Curriculum Overview: Computing

Computing at Morningside <i>Ensuring every Morningside child is a confident and safe digital citizen</i>											
Our computing curriculum aims to evolve at the same rate as the digital world around us and teaches children to be ready for and to embrace these changes. Updated annually, our children learn how to confidently use the internet and digital devices to enhance their learning, share with others and develop computational thinking skills. Units are either Computer Science or Information Technology based, and each lesson incorporates digital citizenship to ensure children have the skills to remain safe online, both in and out of school. Digital learning is not exclusive to computing lessons; key skills children are taught so that children can apply these into their learning across the curriculum and beyond school.											
Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Year 1											
	Programmable Toys <ul style="list-style-type: none"> • Directional language • Precise instructions 	We are TV chefs <ul style="list-style-type: none"> • Filming – tablets • Selecting and editing • Saving to a cloud 	Kodable <ul style="list-style-type: none"> • Visual algorithms • 'when' and change of direction • LGFL 	We are Meteorologists <ul style="list-style-type: none"> • Photos – tablets • Cloud storage • Importing into documents 	Hour of Code <ul style="list-style-type: none"> • Pre- reader Express 	We are Historians <ul style="list-style-type: none"> • Research • Safe searches • Word processing • Saving and sharing 					
Year 2											
	Code.org <ul style="list-style-type: none"> • Word level algorithms • Repeat • Conditional statements 	We are Newsreaders <ul style="list-style-type: none"> • filming – tablets • editing iMovie • Sharing 	Espresso Coding <ul style="list-style-type: none"> • Varying inputs • Changing direction • Making objects disappear 	We are Animators <ul style="list-style-type: none"> • Stop frame animation • Adding text 	Scratch Junior <ul style="list-style-type: none"> • 'if' and 'repeat' statements • Debugging 	We are E-Book Authors <ul style="list-style-type: none"> • Adding photos • Adding text • Sharing and editing 					

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3						
	<p>Code.org</p> <ul style="list-style-type: none"> Sequences Loops Debugging 	<p>We are Time Travellers</p> <ul style="list-style-type: none"> Research Filming Adding text Blogging 	<p>Code.org</p> <ul style="list-style-type: none"> Conditional statements Creating stories Debugging 	<p>We are Presenters</p> <ul style="list-style-type: none"> Research Data collection and analysis Presenting 	<p>Lego WeDo</p> <ul style="list-style-type: none"> Creating Lego models Programming them to move Motion sensors 	<p>We are App Developers</p> <ul style="list-style-type: none"> Creating own art Adding images Creating text Adding links Publishing
Year 4						
	<p>Scratch</p> <ul style="list-style-type: none"> Adding and programming sprites Changing backgrounds 	<p>We are Opinion Pollsters</p> <ul style="list-style-type: none"> Online surveys Analysing results Publishing findings Email 	<p>Scratch</p> <ul style="list-style-type: none"> Variables Consumes Constraints Broadcasting Robots 	<p>We are Producers</p> <ul style="list-style-type: none"> Film and photography Editing Digital footprint Publishing 	<p>Scratch & Lego</p> <ul style="list-style-type: none"> Using Scratch to programme Lego WeDo models Free Coding 	<p>We are Animators</p> <ul style="list-style-type: none"> Planning Modelling Animation Editing

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5					<p>(Python)</p>	
	<p>Microsoft Kodu</p> <ul style="list-style-type: none"> • Introduction • Creating characters and background • Predicting behaviour 	<p>We are Travel Agents</p> <ul style="list-style-type: none"> • EBook • Publishing • Multimedia • Email 	<p>Microsoft Kodu</p> <ul style="list-style-type: none"> • Variables • Changing behaviours • Shifting perspectives 	<p>We are Time travellers</p> <ul style="list-style-type: none"> • Filming • Types of shot • Research • publishing 	<p>Python</p> <ul style="list-style-type: none"> • Coding with Python • Printing • Editing • Debugging 	<p>We are App Developers</p> <ul style="list-style-type: none"> • Creating apps • Importing pictures and text • Publishing and advertising
Year 6					<p>SATS Revision</p>	
	<p>Python and physical computing</p> <ul style="list-style-type: none"> • Inside a computer • Building computers • Coding with Python 	<p>We are Publishers</p> <ul style="list-style-type: none"> • Research • Choosing appropriate software for a purpose • Publishing • App design 	<p>Search Engines & HTML</p> <ul style="list-style-type: none"> • Safe searching • How results are selected and ordered • Web crawlers 	<p>We are Animators</p> <ul style="list-style-type: none"> • Camera angles and special effects • Editing • Publishing 		<p>HTML and the Internet</p> <ul style="list-style-type: none"> • Creating Webpages with HTML and CSS • IP addresses • Networks • Search Engines