


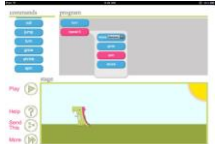




Computing app progression

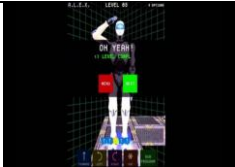

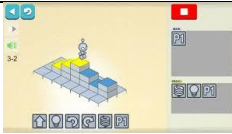

EYFS/KS1 – App progression mapping

	Nursery	Reception	Year 1	Year 2
<h1 style="color: orange;">Computer Science</h1>	<ul style="list-style-type: none"> Increasingly follow rules, understanding why they are important. Match their developing physical skills to tasks and activities in the setting. Explore how things work. 	<ul style="list-style-type: none"> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Explain the reasons for rules, know right from wrong and try to behave accordingly. Develop their small motor skills so that they can use a range of tools competently, safely and confidently. • Know and talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time' 	<ul style="list-style-type: none"> Understand what algorithms are Create simple programmes Show resilience and perseverance in the face of a challenge. 	<ul style="list-style-type: none"> Understand that algorithms are implemented as programs on digital devices Understand that programs execute by following precise and unambiguous instructions Debug simple programmes Use logical reasoning to predict the behaviour of simple programmes
	 <p>Story time apps like busy things or Twinkl lite for tracing handwriting letters.</p>	 <p>Busy things apps/ Twinkl lite – choosing a programme</p>	 <p>Kodable/BeeBot- sequencing instructions</p>	 <p>Daisy the dinosaur- sequencing instructions- simple loops</p>



Computing app progression

LKS2/UKS2 – App progression mapping

	Year 3	Year 4	Year 5	Year 6
<h1 style="color: orange;">Computer Science</h1>	<ul style="list-style-type: none"> • Write programmes that accomplish specific goals • Use sequence in programmes • 	<ul style="list-style-type: none"> • Design programmes that accomplish specific goals • Debug programmes that accomplish specific goals • Use repetition in programs • Control or simulate physical systems • Use logical reasoning to detect and correct errors in programs • Understand how computer networks can provide multiple services, such as the world wide web 	<ul style="list-style-type: none"> • Solve problems by decomposing the into smaller parts • Use selection in programmes • Work with variables • Use logical reasoning to explain how some simple algorithms work • Use logical reasoning to detect and correct errors in algorithms 	<ul style="list-style-type: none"> • Solve problems by decomposing them into smaller parts • Use selection in programmes • Work with variables • Use logical reasoning to explain how some simple algorithms work • Use logical reasoning to detect and correct error in algorithms
	 <p>Alex- complex sequencing of directional instructions (Extension- design your own maze and get a friend to test your instructions)</p>	 <p>1-12 level Lego- Fix the Factory- Extension of Alex with more challenging sequencing</p>	 <p>Light Bot- sequencing instructions- loops and procedures. (Extension challenge levels)</p>	 <p>Cargo bot- Sequencing instructions- procedures and developing efficiency. (extension-challenging activity)</p>