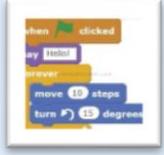
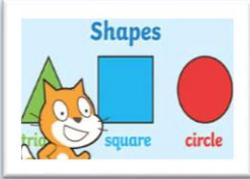
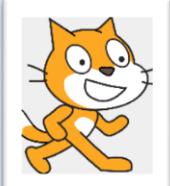


Computing at The Vineyard

I want to change the world!

A curriculum that ensures our children are responsible, competent, confident and creative users of information and communication technology. It also ensures that children can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.

Year group	<u>AUTUMN 1</u>	<u>AUTUMN 2</u>	<u>SPRING 1</u>	<u>SPRING 2</u>	<u>SUMMER 1</u>	<u>SUMMER 2</u>
1	<u>ONLINE SAFETY</u> 	<u>PROGRAMMING TOYS</u> 	<u>COMPUTER SKILLS</u> 	<u>WORD PROCESSING</u> 	<u>PAINTING</u> 	<u>PROGRAMMING</u> 
	KQ: Am I always safe on my computer? -storing information -search engines -sharing information	KQ: Will my toy do as it's told? -writing simple instructions -programming Beebot	KQ: How can a mouse help me? -clicking -dragging -manipulating	KQ: Why do I need to use both hands? -use shift, space and enter -edit using backspace, delete and arrows	KQ: Can a computer paint? -change colours -change brushes -fill shapes -undo and redo	KQ: Can I create a character and make it behave? -create and debug algorithms -use logical reasoning
2	<u>ONLINE SAFETY</u> 	<u>PREPARING FOR TURTLE LOGO</u> 	<u>PRESENTATION SKILLS</u> 	<u>USING THE INTERNET</u> 	<u>COMPUTER ART</u> 	<u>PROGRAMMING</u> 
	KQ: What is a digital footprint? -improving on-line searches -identifying inappropriate content -'cyberbullying'	KQ: How exact do I need to be? -create, test and debug algorithms -using half, & quarter turns -left 90, right 90	KQ: Why use powerpoint? -create Powerpoint presentations -insert slides -format images and text boxes	KQ: How can I contact my friends? -using a range of search engines -blogging -posting comments	KQ: Can you make art on a computer? -manipulate shapes and images -recreate a variety of styles	KQ: Will Scratch jump again and again? -create and debug algorithms -use 'repeat' command -manipulate command blocks

3	<p><u>ONLINE SAFETY</u></p> 	<p><u>WORDPROCESSING</u></p> 	<p><u>RESEARCH & COMMUNICATION</u></p> 	<p><u>PRESENTATION SKILLS</u></p> 	<p><u>DRAWING & DESKTOP PUBLISHING</u></p> 	<p><u>PROGRAMMING</u></p> 
	<p>KQ: How strong is my password? -email safety -dealing with unkind online behaviour -targeted adverts</p>	<p>KQ: How can I improve my text? -cut, copy, paste and format text -insert images -use <control> shortcuts</p>	<p>KQ: Can I always believe what I read? -use keywords -reliable and unreliable websites -sharing webpages</p>	<p>KQ: Can slides really fly? -use slide templates -change transitions, animations & themes -insert audio and video</p>	<p>KQ: What makes a great poster? -insert and manipulate text boxes and images -select appropriate layouts</p>	<p>KQ: How can a cat draw shapes? -use move, rotate & repeat commands -create and debug algorithms that draw shapes</p>
4	<p><u>ONLINE SAFETY</u></p> 	<p><u>SCRATCH – QUESTIONS & QUIZZES</u></p> 	<p><u>WORD PROCESSING</u></p> 	<p><u>ANIMATION</u></p> 	<p><u>USING & APPLYING</u></p> 	<p><u>PROGRAMMING</u></p> 
	<p>KQ: Can I copy everything I find? -preventing and dealing with cyberbullying -avoiding plagiarism -being a good digital citizen</p>	<p>KQ: Is my quiz better than yours? -use repetition and selection -use duplicate function -create and debug own quiz</p>	<p>KQ: Why do I need to use all my fingers? -develop typing skills -check spellings -create and amend tables -add hyperlinks</p>	<p>KQ: Can a picture really move? -early animation techniques -use onion skinning -use time-sliders -make stop motion film</p>	<p>KQ: Can you create your own cartoon? -create cartoon image -create story -combine together to create comic</p>	<p>KQ: How can a turtle go round in circles? -create and debug algorithms to create text -create and debug algorithms to draw shapes, including arcs</p>

5	<p><u>ONLINE SAFETY</u></p> 	<p><u>RADIO STATION</u></p> 	<p><u>RESEARCH & WEB DESIGN</u></p> 	<p><u>3D MODELING</u></p> 	<p><u>USING & APPLYING</u></p> 	<p><u>SCRATCH – CREATING GAMES</u></p> 
	<p>KQ: Can I believe everything I see? -preventing and dealing with spam -how photographs can be manipulated -creating strong passwords</p>	<p>KQ: Can I believe everything I hear? -create and amend sound files -enhance recordings using sound effects -plan and record a radio ad</p>	<p>KQ: What makes a good webpage? -insert and format images in a webpage -consider bias and authority -how to share a webpage</p>	<p>KQ: How can I change 2D into 3D? -draw and manipulate 3D models -use Sketchup tools and features</p>	<p>KQ: Can you design the ultimate bedroom for a 10-year old? -research -design -plan -present</p>	<p>KQ: How many points did you score? -program an algorithm as a sequence of game instructions with actions and consequences -add sound a point scoring</p>
6	<p><u>ONLINE SAFETY</u></p> 	<p><u>SPREADSHEETS</u></p> 	<p><u>FILMMAKING</u></p> 	<p><u>PROGRAMMING</u></p> 	<p><u>SCRATCH – ANIMATED STORIES</u></p> 	<p><u>USING & APPLYING</u></p> 
	<p>KQ: What can't I share? -cyberbullying - find a link to a privacy policy -consider gender stereotyping</p>	<p>KQ: How can a spreadsheet help me plan my party? -enter formulae -edit data -use AVERAGE, MIN, MAX -create graphs</p>	<p>KQ: Am I as good as Steven Spielberg? -devise and make short film -use editing software -present finished movie</p>	<p>KQ: Are you going the same way as me? -Use Kodu to create race-track game -analyse and deconstruct code to work out its purpose</p>	<p>KQ: Who wants to watch my story? -create a sequence of story scenes with audio -add interactive user features</p>	<p>KQ: Can you design and launch a new game? -research game ideas -conduct market research -create game -advertise and promote game</p>