



#### **Computing Vision**

We want all children to be prepared for their future, recognising how technology is an aid to learning; demonstrate an understanding of how to be safe and confident users of technology; and be creative and innovative learners.

A learner in Computing will:

- Use technology safely, respectfully and responsibly.
- Understand how to remain safe online.
- Analyse and solve relevant and worthwhile problems in computational terms.
- Be able to adapt easily to the information technology systems and approaches they will encounter in their future lives.
- Use logical reasoning to explain.
- Recognise common uses of information technology, both in and beyond school.
- Understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.

#### Computing at St Katharine's has been broken down into 4 strands and 8 Key Concepts:



Each child will develop key skills in all four strands within Computing lessons during their time at St Katharine's.



#### **The 4 Strands**

The Computing curriculum will need to be altered year-on-year to meet children's needs and to keep pace with new technology, but maintain structure so children learn core skills and build on their previous experiences. To achieve this, Computing at St Katharine's has been broken down into 4 strands; each child will develop key skills in all four strands within Computing lessons during their time at St Katharine's.



In addition to Computing lessons, the use of technology is incorporated across the curriculum, reinforcing the teaching of essential skills for life and enabling learners to participate more readily and safely in a rapidly changing digital world.



### **E-Safety**

Using the UK Council for Child Internet Safety (UKCCIS) framework, children will be introduced to eight different aspects of online education through Computing lessons during their time at St Katharine's.



These are taught alongside projects as part of Computing lessons where appropriate and through stand-alone E-Safety lessons, linking to the PSHE curriculum. Additional E-Safety lessons take place during Internet Safety Week.



### **Computing Overview**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	All About Algorithms	The BIG Adventure	Aesop's Fables Animation	The Firework Maker's Daughter	Kensuke's Kingdom	Autumn Enterprise
Autumn Term						
	Online Relationships	Privacy and Security	Privacy and Security	Online Bullying	Online Reputation	Self-image and Identity
	Dinosaurs	Anima-L-tion	Digimaps	Out of this World	The Science of Data	Game-On
Spring Term						
	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day
	E-Book	Fit for Life	Recipe Writing	Seashore Book	Kick	Summer Enterprise
Summer Term						
	Online Relationships	Privacy and Security	Privacy and Security	Online Bullying	Online Reputation	Self-image and Identity











EYFS	Focus	Curriculum Content	Skills	Vocabulary
E-Safety	<b>Diline Relationships</b> This strand explores how technology shapes communication styles and identifies strategies for positive relationships in online communities. It offers opportunities to discuss relationships and behaviours that may lead to harm and how positive online interaction can empower and amplify voice.	<ul> <li>Technology: children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</li> <li>Understanding the world involves guiding children to make sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology and the environment.</li> <li>Expressive arts and design involves enabling children to explore and play with a wide range of media and materials, as well as providing opportunities and encouragement for sharing their thoughts, ideas and feelings through a variety of activities in art, music, movement, dance, role-play, and design and technology</li> </ul>	<ul> <li>Children recognise the impact of good choices and consequences of wrong ones.</li> <li>They can select and use technology for a purpose.</li> <li>Children understand that they must ask an adult whether they can use a game or app.</li> <li>Children know that information can be retrieved from computers and can tell an adult if what they see makes them feel worried.</li> <li>Children recognise who they can ask for help and know when they need help.</li> <li>Children understand that they need to share equipment and take turns.</li> </ul>	E-Safety Online Relationships Behaviours Game App Ask / Tell Share
	Resource Ideas	Wider Curriculum Links		
	Smartie the Penguin: https://www.childnet.com/resources /smartie-the-penguin	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal information private, and where to go for help and support.		









Y1	Focus	Curriculum Content	Skills	Vocabulary
E-Safety	<b>Privacy and Security</b> This strand explores how personal online information can be used, stored, processed and shared. It offers both behavioural and technical strategies to limit impact on privacy and protect data and systems against compromise.	<ul> <li>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul>	Children begin to understand what personal information is and who you can share it with, including the need to keep passwords private. They begin to recognise the need to know who they are sharing their learning with online and recognise the difference between real and imaginary online experiences. Children know who to tell when they see something that makes them uncomfortable and make sure an adult knows what they are doing. Children recognise the Internet as an exciting place to be but understand the need for a	E-Safety Online Relationships Behaviours Game App Ask / Tell Share Personal Information
	Resource Ideas	Wider Curriculum Links	activities.	Privacy
	Digi-duck's stories https://www.childnet.com/resources /digiduck-stories/	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal information private, and where to go for help and support.		Password Internet



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Y1	Focus	Curriculum Content	Skills	Vocabulary
Computer Science	All About Algorithms This project introduces children to the early steps of coding. They will learn about algorithms and the importance of planning and giving instructions carefully. This knowledge will then be used to code Bee-Bots to perform a series of movements.	<ul> <li>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>Create and debug simple programs.</li> <li>Use logical reasoning to predict the behaviour of simple programs.</li> </ul>	<ul> <li>1. Jam sandwich algorithm Children give verbal instructions to teacher to make a jam sandwich – teacher must follow every instruction word-for-word.  Introduce algorithms (video). </li> <li>2a. Look at 'real-life' algorithms View sets of instructions needed to carry out a task (e.g. making a cake = a recipe). </li> <li>2b. Creating algorithms Child acts as robot and is given instructions  (forward, backward, turn, left, right) by another child to move from one point to another in the classroom.</li></ul>	Algorithm Instructions Position Forward Backward Left Right Turn (left / right) Bee-Bot
	Resource Ideas	Wider Curriculum Links	3 Ree-Bot algorithms	
	Lesson Plan and video resources: https://stkcomputing.wixsite.com/s tkcomputing Ingredients to make a sandwich Bee-Bots Shape/number cards (see web link to resources)	English Name the letters of the alphabet. Maths Geometry – position and direction (year 1): Pupils should be taught to: describe position, direction and movement, including whole, half, quarter and three- quarter turns Count, read and write numbers to 100 in numerals	Children to programme Bee-Bots to 'draw' a series of shapes, numbers, letters (etc.) as directed by the teacher.	



Y1	Focus	Curriculum Content	Skills	Vocabulary
	Dinosaurs	<ul> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>Recognise common uses of information technology bound ashade</li> </ul>	<ol> <li>Brilliant Beginning – Dinosaur 4D+ Cards Children use Dinosaur 4D+ (augmented reality) cards and iPads to learn information about dinosaurs.</li> </ol>	iPad Augmented Reality
Il Literacy	This project will demonstrate the capabilities of augmented reality apps (Dinosaur 4D+). Children will create a PowerPoint presentation containing text and	Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	<b>2. Formatting pictures</b> Children introduced to PowerPoint and how to place images onto slides. Vocabulary of 'select', 'right click', 'copy', 'paste' and 'scale' introduced.	Computer Screen Mouse Keyboard
Digita	pictures.		<b>3. Formatting text</b> Children add text containing facts about dinosaurs learnt from Brilliant Beginning and project.	Left click
	Resource Ideas	Wider Curriculum Links		1- 7
	Dinosaur 4D+ Cards iPads – Dinosaur 4D+ app		<b>4. Formatting PowerPoint</b> Some children may move on to applying transitions to slides to create a more exciting presentation.	Paste PowerPoint
	PC/Laptops – PowerPoint			Text
	Pictures of dinosaurs (saved on system)			Picture Formatting
				Scale
				Transition



Y	1	Focus	Curriculum Content	Skills	Vocabulary
Digital Literacy	Video / Photography	<b>E-Book</b> Children will use 2Simple to create an e-book containing animations, sound, backgrounds and addition features to enhance their stories.	<ul> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>Recognise common uses of information technology beyond school.</li> <li>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul>	<ul> <li>1. E-Books</li> <li>Children introduced concept of an e-book.</li> <li>Children introduced to 2Create a Story app.</li> <li>Children type sentence(s) to create the first page(s) of their story.</li> <li>2. Formatting background</li> <li>Children add a background to their story.</li> <li>Also taught how to copy and paste pages.</li> <li>3. Adding Animations</li> <li>Children use the drawing tool to add drawings to their story and then apply animations.</li> </ul>	E-Book Save Open iPad Computer Screen Mouse Keyboard Right click Left click
		Resource Ideas Instructional video: <a href="https://www.youtube.com/watch?v=">https://www.youtube.com/watch?v=</a> <a href="https://www.youtube.com/watch?v=">u6NIVyMqJf0</a> iPads or PC/Laptops - 2Create a Story app	Wider Curriculum Links English Writing (Year 1) – transcription, composition and vocabulary, grammar & punctuation.	<ul> <li><b>4. Adding Sound</b></li> <li>Children add pre-recorded sound effects to their story. Progress on to recording own sounds.</li> <li><b>5. Additional Features</b></li> <li>Children use additional features to enhance their stories.</li> </ul>	Type Text Font Format Background Copy Paste Animation Sound









Y2	Focus	Curriculum Content	Skills	Vocabulary
	1	<ul> <li>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul>	Children understand what personal information is and who you can share it with, including the need to keep passwords private.	E-Safety Online Relationships
	Privacy and Security		Children begin to recognise the need to know who they are sharing their learning with	Behaviours
	This strand explores how personal		online and recognise the difference between real and imaginary online experiences.	Game
	online information can be used, stored, processed and shared. It		Children know who to tell when they see	Арр
fety	offers both behavioural and technical strategies to limit impact on privacy		something that makes them uncomfortable and make sure an adult knows what they are	Ask / Tell
E-Sa	and protect data and systems against compromise.		doing.	Share
			Children recognise the Internet as an exciting place to be but understand the need for a	Personal Information
			balance in how they spend their time and	Driver
	<b>Resource Ideas</b>	Wider Curriculum Links	make good choices about age appropriate activities.	Privacy
	Think U Know: https://www.thinkuknow.co.uk/prof essionals/resources/jessie-and- friends/	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal		Password Internet
		information private, and where to go for help and support.		



Y2	Focus	Curriculum Content	Skills	Vocabulary
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The BIG Adventure	<ul> <li>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> </ul>	1. Introduction to debugging https://www.barefootcomputing.org/resourc es/pizza-pickle-scratch-debugging	Algorithm Instructions Position
er Science	Through this project, children are given programs that do not do as expected and will be tasked to fix them. In doing so, they will learn skills necessary to enhance logical reasoning and predict what will	<ul> <li>Create and debug simple programs.</li> <li>Use logical reasoning to predict the behaviour of simple programs.</li> </ul>	<ul> <li>2. Bee-Bot Programming</li> <li>Children input algorithms physically to program and control a Bee-Bot to perform a series of movements.</li> <li><a href="https://www.barefootcomputing.org/resources/bee-bots-1-2-3-programming">https://www.barefootcomputing.org/resources/bee-bots-1-2-3-programming</a></li> </ul>	Forward Backward Left Right
Comput	happen in order to develop their debugging skills. Resource Ideas	Wider Curriculum Links	<b>3. Bluebot Programming (optional)</b> Children may progress onto using digital algorithms to program a Blue-Bots using	Turn (left / right) Bee-Bot Blue-Bot
	https://www.barefootcomputing.org /resources/pizza-pickle-scratch- debugginghttps://www.barefootcomputing.org /resources/bee-bots-1-2-3- programmingPC/Laptop - https://www.j2e.com/jit5#turtleiPad - Bluebot appBee-Bots / Blue-Bots	MathsGeometry – position and direction (year 2):Pupils should be taught to:Use mathematical vocabulary to describe position,direction and movement, including movement in a straightline and distinguishing between rotation as a turn and interms of right angles for quarter, half and three-quarterturns (clockwise and anti- clockwise).Year 2 Food TechnologyThrough a variety of creative and practical activities, pupilsshould be taught the knowledge, understanding and skillsneeded to engage in an iterative process of designing andmaking.	<ul> <li>4. Simple Algorithm Programming</li> <li>Children use online programming tool to create simple lines of code linking to knowledge of coding Bee-Bots : <a href="https://www.j2e.com/jit5#turtle">https://www.j2e.com/jit5#turtle</a></li> </ul>	Logical Reasoning Predict Debug



Y	2	Focus	Curriculum Content	Skills	Vocabulary
Computer Science	Video / Photography 이	Anima-L-tion During this project, children will the use Scratch JR utilising their skills and knowledge of algorithms learnt previously. They will be taught and taken through the necessary steps to create a short animation before creating their own animations using the skills learnt.	<ul> <li>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>Create and debug simple programs.</li> <li>Use logical reasoning to predict the behaviour of simple programs.</li> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>Recognise common uses of information technology beyond school.</li> <li>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul>	<ul> <li>1. Introduction to Scratch JR Children are guided through the steps required to create a short animation. See following link for ideas: https://www.barefootcomputing.org/resourc es/scratchjr-knock-knock-joke-activity</li> <li>2. Independent Scratch Animation Using the knowledge gained from guided practice, children create their own animation using Scratch JR linking to their project work.</li> <li>Children could include own photographs as backgrounds in their animations as an extension to this unit of work.</li> </ul>	Algorithm Instructions Position Forward Backward Left Right Turn (left / right) Logical Reasoning Predict Debug
		Resource Ideas	Wider Curriculum Links		
		https://www.barefootcomputing.org /resources/scratchjr-knock-knock- joke-activity PC/Laptop - Scratch JR	Maths Geometry – position and direction (year 2): Pupils should be taught to: Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti- clockwise).		



Y	2	Focus	Curriculum Content	Skills	Vocabulary
	( <u>c)</u>	Fit for Life	• Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<ol> <li>Safe Search</li> <li>Children will be taught how to search safely and effectively using the internet. Following</li> </ol>	Poster Save
Digital Literacy	Video / Photography	Through this project, children will be taught the necessary skills to research and produce a poster about a significant figure in the sporting world. This includes inputting and formatting pictures and text to create an aesthetically pleasing design.	<ul> <li>Recognise common uses of information technology beyond school.</li> <li>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> </ul>	<ul> <li>this, they will find a small amount of information about a significant figure in the sporting world. This will not include pictures at this stage.</li> <li><b>2a. Inputting Text</b> Children will then progress onto inputting the text from their research using Microsoft Word. </li> <li><b>2b. Formatting Text</b> Children will format the text using different sized fonts, colours and sizes aiming to make sport for the text stand out (a. a. titlea)</li></ul>	Open Computer Screen Mouse Keyboard Right click Left click Type
		Resource Ideas	Wider Curriculum Links		Font
		PC/Laptop - Google Search and Microsoft Word	<b>History</b> Pupils should be taught aboutthe lives of significant individuals in the past who have contributed to national and international achievements.	<ul> <li>3a. Inputting Pictures</li> <li>Children will be taught how to import pictures from a file.</li> <li>3b. Formatting Pictures</li> </ul>	Picture Crop Format
				Children will format pictures to create poster, thinking about position, colour and size.	Background
					Сору
					Paste
					Aesthetics









<b>Y</b> 3	Focus	Curriculum Content	Skills	Vocabulary
E-Safety	<b>Delive Bullying</b> <b>Delive Bullying</b> <b>Delive Bullying</b> <b>And Set Set Set Set Set Set Set Set Set Set</b>	<ul> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>Children recognise the impact of good choices and consequences of wrong ones.</li> <li>They can select and use technology for a purpose.</li> <li>Children understand that they must ask an adult whether they can use a game or app.</li> <li>Children know that information can be retrieved from computers and can tell an adult if what they see makes them feel worried.</li> <li>Children recognise who they can ask for help and know when they need help.</li> <li>Children understand that they need to share equipment and take turns.</li> </ul>	E-Safety Online Relationships Bullying Behaviours Legislation Ask / Tell Share Personal Information
	Resource Ideas	Wider Curriculum Links		Privacy
	Hector's World: http://www.hectorsworld.com/islan d/main/episode_theatre_interior_01 /index.html	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal information private, and where to go for help and support.		Password Internet Choices Purpose

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Y	3	Focus	Curriculum Content	Skills	Vocabulary
	රා	Aesop's Fables Animation	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> </ul>	<ul> <li>1a. Crazy Character Algorithms <ul> <li>https://www.barefootcomputing.org/resourc</li> <li>es/crazy-character-algorithms</li> </ul> </li> <li>1b. Programme Blue-Bots to gain an <ul> <li>understanding of inputting algorithms using</li> <li>computational thinking.</li> </ul></li></ul>	Algorithm Sequence Debugging Bluetooth
Computer Science	Video / Photography	learn about sequences of instructions in coding. They will begin by creating a short animation about a poem. This will give them the knowledge to go on and create their own animation about a fable.	<ul> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>2. Animation <u>https://www.barefootcomputing.org/resources/animated-poem-decomposition</u> </li> <li>Children taught a number of skills to code an animation using Scratch (poem)</li> <li>The animation is broken down into features to be programmed (backgrounds, characters, movement, text displayed).</li> </ul>	Algorithm Instructions Position Forward Backward Left
		Resource Ideas Animating a poem resources: https://www.barefootcomputing.org /resources/animated-poem- decomposition PC/Laptop - Scratch	Wider Curriculum Links English Children should be taught to develop positive attitudes towards and stamina for writing.	<ul> <li><b>3. Animating a Fable</b></li> <li>The skills learnt through the animation tutorial can then be applied to their own animation about a fable.</li> <li><b>4. Debugging</b></li> <li>Children test animations, debug and make improvements before presenting.</li> </ul>	Turn (left / right) Bee-Bot Bluebot Logical Reasoning Predict Debug

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Y	3	Focus	Curriculum Content	Skills	Vocabulary
Digital Literacy	Video / Photography	Digimaps Through this project, children will be navigate around using the Digimap for Schools app. They will become competent in adding labels and images to their own map and conduct some geographical fieldwork before marking their findings on the map.	<ul> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>1. Children explore Digimap app Children given time to explore Digimap for themselves. Task them to find certain features on the map or buildings (e.g. school).</li> <li>2. Navigating around a map Children shown how to navigate around the map: zooming in and out, scrolling across the map etc.</li> <li>3. Adding Text Children taken through tutorial to add text to the map. They then add text to their own map – possibly marking on location of the school, but not their home (E-Safety).</li> </ul>	Navigate Zoom (in / out) Rotate North South East West Textbox Image
		Resource Ideas iPads - Digimap for Schools app Digimap for Schools Guide and Ideas: https://digimapforschools.edina.ac.u k/schools/Resources/Secondary/quic k ideas.pdf Royal Geographical Society https://www.rgs.org/schools/teachin g-resources/map-skills/map-skills- map-skills-year-three/	Wider Curriculum Links Geography Map work of local area	<ul> <li>4. Taking Images</li> <li>Children to undertake some geographical fieldwork, taking photographs of findings around the local school area.</li> <li>5. Adding Images</li> <li>Children taken through tutorial to add images to the map. They then add their own images to the map accurately locating where their photograph was taken.</li> </ul>	Photograph Pin Label Crop Locate



<b>Y</b> 3	Focus	Curriculum Content	Skills	Vocabulary
	Recipe Writing	<ul> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> </ul>	<b>1. Look at recipe books</b> Children given time to explore recipe books and find features (e.g. heading, pictures, captions etc.)	Safe Search Recipe
acy.	By the end of this project, children have created and published a recipe and be competent and safe users of the internet to search for images.	<ul> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>	<b>2. Safe Search</b> Children will be taught how to search safely and effectively for images using the internet. Save images in a file for Step 4.	Save Open Computer Screen
Digital Liter		• Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	<b>3. Inputting and Formatting Text</b> Children will then progress onto inputting text using Microsoft Word or PowerPoint to create a recipe card.	Mouse Keyboard Right click
	Resource Ideas	Wider Curriculum Links	Children will format the text using different	Left click
	PC/Laptop - Microsoft Word or PowerPoint	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly	sized fonts, colours and sizes aiming to make sections of the text stand out (e.g. titles).	Type Text
	https://www.typingclub.com/sportal /program-3.game	respectfully and securely, how to keep personal information private, and where to go for help and support.	Inputting and Formatting pictures to create recipe card. Think carefully about the image they are using.	Picture
	https://www.bbc.co.uk/bitesize/topi cs/zf2f9j6/articles/z3c6tfr	Children should be taught to develop positive attitudes towards and stamina for writing.	<b>Optional - Touch Typing</b> Children take a series of touch typing lessons using a choice of programs (see Resource Ideas).	Import Format Copy









Y4	Focus	Curriculum Content	Skills	Vocabulary
E-Safety	Deline Reputation Online Reputation This strand explores the concept of reputation and how others may use online information to make judgements. It offers opportunities to develop strategies to manage personal digital content effectively and capitalise on technology's capacity to create effective positive profiles.	<ul> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	Children understand the need for rules to keep them safe when exchanging ideas online. They understand that an adult needs to know what they are doing online and understand how to report concerns, including cyberbullying. Children recognise the need to choose age- appropriate games to play on their devices, and when to limit use. They recognise the need to protect their devices from viruses.	E-Safety Online Relationships Reputation Behaviours Legislation Ask / Tell Share Personal Information
	<b>Resource Ideas</b>	Wider Curriculum Links	<mark>used by others.</mark>	Privacy
	Captain Kara and the SMART Crew: https://www.childnet.com/resources /the-adventures-of-kara-winston- and-the-smart-crew/smart-crew- guidance-and-activities Be The Boss PowerPoint Game - Saved on system from Internet Safety Day 2020	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal information private, and where to go for help and support.	They recognise that they can use online tools to collaborate and communicate with others and the importance of doing this responsibly, choosing age-appropriate websites. Children recognise the effect their writing or images might have on others.	Password Communicate Responsible Profile



Y4	Focus	Curriculum Content	Skills	Vocabulary
ලා	The Firework Maker's Daughter: Exploding Film	<ul> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> </ul>	Lesson plan and video resources: https://stkcomputing.wixsite.com/stkcomput ing	Stop Frame Animation
Video / Photography	During this project, children will discover the process behind creating films such as Wallace and Gromit, trial out different animation techniques and then create a short animation using stop-frame animation.	<ul> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>1. Introduction to stop frame animation Watch short Wallace and Gromit Cracking Contraptions clips.</li> <li>Children to have a go at using Lego Movie Maker on iPads using plasticine. (Watch short video for inspiration)</li> <li>2. Animation using Lego Children to use Lego characters to animate using Lego Movie Maker on iPads.</li> <li>Talk about advantages/disadvantages of Lego vs plasticine</li> <li>3. Storyboarding</li> </ul>	Sequence Programme Selection Repetition Focus Edit Photograph Lighting
	Resource Ideas	Wider Curriculum Links	based on volcano exploding.	Sound
	Lesson Plan and video resources: https://stkcomputing.wixsite.com/st kcomputing iPads - Lego Movie Maker or Stop Frame Animation App	<ul> <li>Art &amp; Design Technology</li> <li>KS2:</li> <li>Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> <li>To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials</li> </ul>	<ul> <li>4. Film Animation Children to select appropriate medium to create their animation (Lego, plasticine, paper drawings etc.) 5. Edit Animation Children to edit their animations adding in text and sound effects as appropriate.</li></ul>	Text



Y4	Focus	Curriculum Content	Skills	Vocabulary		
	Out of this World	<ul> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> </ul>	<b>1. Brilliant Beginning – Space 4D+ Cards</b> Children use Space 4D+ (augmented reality) cards and iPads to learn information about	Safe Search Fact File		
Digital Literacy	Children will use Microsoft Word to create a fact file. During the project, they will be taught how to input and format text and pictures, in addition to using the internet to search effectively and safely.	<ul> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> <li>Safe Search</li> <li>Children will be taught how to search safely and effectively using the internet with help from a video which discusses how devices a connected to each other. https://www.youtube.com/watch?v=M-njh8mFvVk&amp;feature=emb_title</li> <li>Following this, they will use the internet to research information about space in a safe manner. This will not include pictures at this</li> </ul>	space.Sa <b>2. Safe Search</b> OChildren will be taught how to search safely and effectively using the internet with help from a video which discusses how devices are connected to each other.Ohttps://www.youtube.com/watch?v=M- njh8mFvVk&feature=emb_titleNFollowing this, they will use the internet to research information about space in a safeT	space.       space.         2. Safe Search       (C         Children will be taught how to search safely       (C         and effectively using the internet with help       (C         from a video which discusses how devices are       (C         connected to each other.       (C         https://www.youtube.com/watch?v=M-       (C         njh8mFvVk&feature=emb_title       (C         Following this, they will use the internet to       (C         research information about space in a safe       (C	2. Safe Search Children will be taught how to search safely and effectively using the internet with help from a video which discusses how devices are connected to each other. <u>https://www.youtube.com/watch?v=M-</u> <u>njh8mFvVk&amp;feature=emb_title</u> Following this, they will use the internet to research information about space in a safe manner. This will not include pictures at this	Save Open Computer Screen Mouse Keyboard Left / Right click
	Resource Ideas	Wider Curriculum Links	stage.	Toxt		
			<ul> <li>stage.</li> <li><b>3. Inputting and Formatting Text</b> Children will then progress onto inputting the text from their research using Microsoft Word to create a fact file. Children will format the text using different sized fonts, colours and sizes aiming to make sections of the text stand out (e.g. titles). <b>4. Inputting and Formatting Pictures</b> Inputting and Formatting pictures to create Poster.</li></ul>			
	E-Safety - Safe Searching: https://www.youtube.com/watch?v= M-njh8mFvVk&feature=emb_title Space 4D+ Cards iPads – Space 4D+ app	<ul> <li><b>PSHE</b></li> <li>Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal information private, and where to go for help and support.</li> <li><b>Science</b></li> <li>Earth and Space</li> </ul>	<ul> <li><b>3. Inputting and Formatting Text</b></li> <li>Children will then progress onto inputting the text from their research using Microsoft Word to create a fact file.</li> <li>Children will format the text using different sized fonts, colours and sizes aiming to make sections of the text stand out (e.g. titles).</li> <li><b>4. Inputting and Formatting Pictures</b></li> <li>Inputting and Formatting pictures to create Poster.</li> </ul>	Font Picture Crop Import Format Copy Paste Aesthetics		



<b>Y</b> 4	Focus	Curriculum Content	Skills	Vocabulary
	Seashore Book	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection, and repetition in preserve and write parts formed.</li> </ul>	<ul> <li>1. Decomposition</li> <li>Children are taught about the process of decomposition and how it relates to computer science and programming.</li> <li><a href="https://www.bbc.co.uk/bitesize/topics/zkcqn">https://www.bbc.co.uk/bitesize/topics/zkcqn</a></li> <li>39/articles/z8ngr82</li> </ul>	Decomposition Computational Thinking Algorithm
ø	Children will be taught the process of decomposition and how it relates to	of input and output.	2. Programme Blue-Bots (remotely) using	Bluetooth
Scienc	computer science and programming.	<ul> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> </ul>	iPad app to gain an understanding of inputting algorithms using decomposition and computational thinking.	Sprite
Computer S	necessary skills to create a game using Scratch before using these skills to design and code their own game.	<ul> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report</li> </ul>	<b>3. Coding Skills</b> Children shown a number of skills to code their own game following step-by-step tutorials in (little Coders' books or use (Post	Costumes Blocks Code
Ŭ	Resource Ideas	Wider Curriculum Links	Race' tutorial (advanced): <u>https://projects.raspberrypi.org/en/projects/</u>	Motion Background
	Decomposition Video: https://www.bbc.co.uk/bitesize/topi cs/zkcqn39/articles/z8ngr82 Blue-Bots	English Reading Maths Geometry – position and direction	<b>4. Plan Game</b> Children to select skills learnt to design their own adventure game using Scratch thinking about decomposition.	x / y coordinate Size Direction
	iPads – Bluebot app Little Coders Books or Online Scratch		<b>5. Create Game</b> Children to follow their plan to create their own adventure game using Scratch.	Input Output
	Tutorial (Code Club): https://projects.raspberrypi.org/en/ projects/boat-race			









<b>Y</b> 5	Focus	Curriculum Content	Skills	Vocabulary
		<ul> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	Children understand the need to keep personal information and passwords private, and know how to choose a secure password.	E-Safety Online
			Children understand appropriate and	Relationships
	Health, Wellbeing		inappropriate use of the Internet including excessive use.	Reputation
	and Lifestyle		Children recognise the risks and rewards of	Behaviours
	This strand explores the impact that technology has on health, well-being		using Internet communication tools and understand how to protect themselves and	Legislation
ety	and lifestyle. It also includes understanding negative behaviours		the devices they use.	Ask / Tell
:-Safe	and issues amplified and sustained by online technologies and the		Children understand the need to respect the rights of other users, and understand their	Share
-	strategies for dealing with them.		own responsibility for information that is shared and how it may impact on others.	Personal Information
	Resource Ideas	Wider Curriculum Links		Privacy
	PSHE Association Website	PSHE		Password
	KS2 (Y5/6 resources - PowerPoint) https://www.pshe-	escalating risks that young people face as they get older. This includes how to use technology safely, responsibly,		Communicate
	association.org.uk/curriculum-and-	respectfully and securely, how to keep personal information private, and where to go for help and support.		Responsibility
	and-emotional-wellbeing-lesson-			Profile
	<u>plans</u>			
	Internet Addiction Charter:			
	https://www.tabletsforschools.org.u			
	K/ ?s=internet+addiction			



Y5	Focus	Curriculum Content	Skills	Vocabulary
/ Photography	Kensuke's Kingdom         During this project, children will         create a movie trailer based on the         book Kensuke's Kingdom by Michael         Morpurgo.         They will think about sequence and         use their own images and         photography to create their trailer.	<ul> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>	<ul> <li><b>1. iMovie Taster</b></li> <li><b>Children are taken through a tutorial on how</b> to use the iMovie app on iPads to create a mini movie trailer.</li> <li><b>2. Plan Movie Trailer</b></li> <li><b>Children plan out their movie trailer thinking</b> about sequence, images, transition effects and text.</li> <li><b>3. Collate images</b></li> <li><b>Children collate images to use in trailer</b> including searching and saving images online, creating their own images (artwork) and taking photographs of their own artwork and with images from the book</li> </ul>	Trailer Soundtrack Titles Text Select Storyboard Sequence Selection
Video		Ose technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	<b>4. Create Final Trailer</b> Children combine their images, text and sounds and use their plan to create their own movie trailer.	Repetition Safe Search Import
	Resource Ideas	Wider Curriculum Links		
	iPads - iMovie app Tutorial (for teachers): <u>https://www.youtube.com/watch?v=</u> <u>hMIsraMg7V4</u>	<ul> <li>Art &amp; Design Technology</li> <li>KS2:</li> <li>Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> <li>To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials</li> </ul>		Export



Y	'5	Focus	Curriculum Content	Skills	Vocabulary
		The Science of Data	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> </ul>	<b>1. Carry out investigation(s)</b> Children to carry out a series of Science investigations recording the results on paper.	Input Output
Digital Literacy	<b>Computer Science</b>	During this project, children will be introduced to Excel. Using simple code, they will create graphs and charts using data from science experiments to display their results.	<ul> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>2. Introduction to Excel/Numbers</li> <li>Choice of hardware and software: <ul> <li>PC/Laptop using Excel</li> <li>IPads using Numbers.</li> </ul> </li> <li>They will then use data collected to input into Excel or Numbers to create (output) charts and graphs, which can be analysed.</li> </ul>	Data Graph Cell Validation Excel / Numbers Formatting
		Resource Ideas	Wider Curriculum Links		
		PC/Laptop - Excel iPad - Numbers app Data from Science investigation(s)	<ul> <li>Science</li> <li>Taking measurements, using a range of scientific equipment, with increasing accuracy and precision</li> <li>Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs</li> <li>Using test results to make predictions to set up further comparative and fair tests</li> <li>Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations</li> </ul>		



<b>Y</b> 5	Focus	Curriculum Content	Skills	Vocabulary
	Kick	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> </ul>	<b>1a. Decomposition</b> Children are reminded (back to year 4) about the process of decomposition and how it relates to computer science and programming.	Decomposition Computational Thinking Algorithm
ience	During this project, children will be reminded of the process of decomposition and learn how to create a game on Scratch.	<ul> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors</li> </ul>	https://www.bbc.co.uk/bitesize/topics/zkcqn 39/articles/z8ngr82 <b>1b. Programme Blue-Bots</b> (remotely) to undertake a series of tasks (e.g. navigating around a maze and collecting a ping pong	Bluetooth Instructions Sprite
Computer Sc	They will then use this knowledge to plan and code a game linked to the book Kick by Mitch Johnson.	<ul> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>ball) using iPad app to gain an understanding of inputting algorithms using decomposition and computational thinking.</li> <li><b>2. Coding Skills</b></li> <li>Children shown a number of skills to code their own game following step-by-step</li> </ul>	Costumes Blocks Code Motion
	Resource Ideas	Wider Curriculum Links	'Create your own world' tutorial (advanced):	Background
	Decomposition Video: https://www.bbc.co.uk/bitesize/topi cs/zkcqn39/articles/z8ngr82 Blue-Bots and iPads - Bluebot app PC/Laptop - Scratch Online Scratch Tutorial: https://projects.raspberrypi.org/en/ projects/create-your-own-world	English Reading Maths Geometry – position and direction	<ul> <li>https://projects.raspberrypi.org/en/projects/ create-your-own-world</li> <li>3. Plan Game Children to use skills learnt to design their own adventure game linking to Kick by Mitch Johnson using Scratch, thinking about decomposition.</li> <li>4. Create Game Children to follow their plan to create their own adventure game using Scratch.</li> </ul>	x / y coordinate Size Direction Input Output









¥6	Focus	Curriculum Content	Skills	Vocabulary
E-Safety	<b>Delta Delta <b>Delta Delta <b>Delta Delta Delta Delta Delta <b>Delta Delta Delta Delta Delta <b>Delta <b>Delta <b>Delta <b>Delta Delta <b>Delta <b>Delta <b>Delta Delta <b>Delta <b>Delta <b>Delta <b>Delta <b>Delta <b>Delta <b>Delta <b>Delta Delta <b>Del</b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b></b>	<ul> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	Children recognise their own right to be protected from the inappropriate use of technology by others and their responsibility to report concerns. Children understand how to use social networking websites appropriately, keeping an adult informed about their online activity. They make good choices when they present themselves online. Children recognise the appropriate online tools to collaborate and communicate with others, understanding how to protect themselves from cyberbullying or causing hurt to others, especially when using social networks (including online gaming communities).	E-Safety (Online) Identity Self-image Online Relationships Reputation Behaviours Legislation Ask / Tell Share
	<b>Resource Ideas</b>	Wider Curriculum Links	rights of other users, and understand their	Personal
	PSHE Association Website (Designed for KS3 but some useful resources) https://www.pshe- association.org.uk/curriculum-and- resources/resources/dove-self- esteem-project-teaching-resources- five Primary Stars Website: https://plprimarystars.com/resource s/self-esteem	<b>PSHE</b> Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep personal information private, and where to go for help and support.	shared and how it may impact on others.	Privacy Password Communicate Responsibility Profile



Y	<b>'6</b>	Focus	Curriculum Content	Skills	Vocabulary
	ලා	Autumn Enterprise	<ul> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> </ul>	<b>1. Introduction to visual advertising</b> Children are shown a series of poster advertisements and decide what makes them good/bad.	Advertisement Formatting
Digital Literacy	Video / Photography	During this project, children will create a digital poster advertisement to sell a product thinking carefully about aesthetics. In addition, they will create a short video pitch or trailer.	<ul> <li>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	Introduce poster advertisement guidance booklet – providing step by step guidance to create a successful poster advertisement. Children shown how to create a poster advertisement using PowerPoint (easier to position text and images than Word). <b>2. Create digital advertisement</b> Children use poster advertisement guidance booklet to create their own poster advertisement including use of text on page, tag line, use of image and colour. <b>3. Creating a video pitch/trailer</b>	Scale Crop Select Sequence Safe Search Layer Overlay Visual
		Resource Ideas	Wider Curriculum Links	Children use their knowledge of iMovie (Y5) to film and create a movie trailer of pitch to	Tag line
		PC/Laptop - PowerPoint		sell their product.	
		iPad - Camera app and iMovie			



<b>Y</b> 6	Focus	Curriculum Content	Skills	Vocabulary
Computer Science	Game-On During this project, children will be reminded of the process of decomposition and learn how to create a game on Scratch. They will then use this knowledge to plan and code a game appealing to a specific target group.	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and</li> </ul>	<ul> <li>1a. Decomposition Children are reminded (back to year 4 &amp; 5) <ul> <li>about the process of decomposition and how</li> <li>it relates to computer science and programming. https://www.bbc.co.uk/bitesize/topics/zkcqn 39/articles/z8ngr82 </li> <li>1b. Programme Blue-Bots (remotely) to <ul> <li>undertake a series of tasks (e.g. navigating</li> <li>around a maze and collecting a ping pong</li> <li>ball) using iPad app to gain an understanding</li> <li>of inputting algorithms using decomposition</li> <li>and computational thinking.</li> </ul> </li> <li>2. Coding Skills Children shown a number of skills to code</li></ul></li></ul>	Decomposition Computational Thinking Algorithm Bluetooth Instructions Sprite Costumes Blocks Code
	Resource Ideas	Collaboration.	their own game following step-by-step tutorials; Little Coders Books or online: <u>https://projects.raspberrypi.org/en/codeclub</u>	Motion Background
	Decomposition Video: https://www.bbc.co.uk/bitesize/topi cs/zkcqn39/articles/z8ngr82 Blue-Bots and iPads - Bluebot app PC/Laptop - Scratch Little Coders Books Online Scratch Tutorials: https://projects.raspberrypi.org/en/c odeclub/scratch-module-3	<b>Jaths</b> Geometry – position and direction	<ul> <li>/scratch-module-3</li> <li>3. Plan Game Considering Target Audience Children to use skills learnt to design their own adventure game for a specific target audience, thinking about decomposition.</li> <li>4. Create Game &amp; Evaluation Children to follow their plan to create their own adventure game using Scratch before it is tested out, correcting any bugs, and presented to a member of their target audience for evaluation.</li> </ul>	x / y coordinate Size Direction Input Output Target audience Evaluation



<b>Y</b> 6			Focus	Curriculum Content	Skills	Vocabulary
Digital Literacy	Computer Science	Video / Photography	Summer Enterprise This project is a culmination of computing lessons during a pupil's time at St Katharine's. Using their knowledge of a variety of computing hardware and software, children will create digital advertisements, brochures, spreadsheets and video advertisements as well as learn about how to publicise an event using email and social media	<ul> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	<ul> <li>1. Advertising Poster advertisements Programme/Brochure design Ticket design </li> <li>2. Spreadsheets Use Excel to create budgeting calculator showing costs, profit margin etc. Use data to create tables, graphs, pie charts etc. 3. Video advertisement Promote the show – iMovie </li> <li>4. Publicising Using Email and social media safely and responsibly</li></ul>	Advertisement Formatting Scale Crop Select Sequence Safe Search Layer Overlay Visual
			safely and responsibly.		5 Google Logo (extension)	Tag line
			Resource Ideas PC/Laptop - PowerPoint/Excel iPad - Camera app and iMovie Create your own Google logo:	Wider Curriculum Links PSHE Progression in the content to reflect the different and escalating risks that young people face as they get older. This includes how to use technology safely, responsibly, respectfully and securely, how to keep	S. Google Logo (extension)         Possible extension to design a Google         logo (instructions and platform):         https://csfirst.withgoogle.com/c/cs-         first/en/create-your-own-google-         logo/create-your-own-google-         logo/create-your-own-google-         logo/create-your-own-google-	Budget Spreadsheet Data
			https://csfirst.withgoogle.com/c/c s-first/en/create-your-own- google-logo/create-your-own- google-logo/create-your-own- google-logo.html	personal information private, and where to go for help and support.	logo.html Children watch video to set the task before designing a Google logo linking to their chosen enterprise topic.	Publicising Email Social Media