

Computing at St Andrew's CE (VA) Infant School

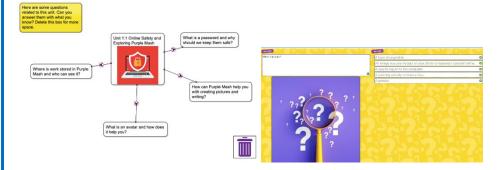
Purple Mash

Planning

The Purple Mash schemes of work is used to support the planning of computing within KS1 which is based on the **National Curriculum.** Pupils are taught to master key skills over the year to help them achieve skills in **computer science, information technology and digital literacy** which pupil's complete primarily on computers. Pupils have access to their own log in details and have access to this information within school and in pupils home-school record. Throughout the year pupils are taught about online safety and learn about key influences in Computing. Discrete lessons are taught in the computing suite which has computer/internet access and pupils are given allotted time to be able to complete their lessons with Charlene Kerry (HLTA). We are determined to provide the children with opportunities to develop their computing skills when working in other areas of the curriculum.

Knowledge organisers added to the blog

Keywords and key questions key images key vocabulary- added to the blog (pre-learning)



Mind maps are used at the beginning of the topic to understand pupils' previous knowledge. Quizzes can be used throughout the topic to check pupils understanding. Pupils work is saved on the Purple Mash system and is being displayed within the topic big book.

The children use a wide range of computing skills including:

- Word processing to write stories, poems or letters
- Databases to record information, e.g., minibeasts databases
- IWB screens to pose mathematical problems and to model work
- Desktop publishing to design posters, leaflets or cards
- Multimedia presentations to present text, pictures and sound
- Drawing programs to create pictures and designs
- Using search engines to find information
- Cameras/ iPads to record what they have done in class or on a visit
- Using Purple Mash to produce a range of work showcasing their understanding in different subjects including- newspaper reports, animations and whole class mind maps.
- Playing educational games online to support learning
- Videos to enhance learning experiences
- Simulations to explore real and imaginary situations

Teachers have a clear success criterion, and this enables any pre-teaching of specific vocabulary or any misconceptions to be addressed before/during/after the lesson. The lesson plan gives details on the types of activities that will happen during the lesson and any resources that will be required (usually the

resources/pictures will be linked in). The Purple Mash PowerPoints show the lesson objective and instructions on how to gain the skills and knowledge needed to complete the activity. Purple Mash knowledge organisers that are shared with the pupils and displayed throughout the lesson. The lesson plans set out a clear sequence to the lesson to show what a "typical' lesson should look like and shows follow up challenges.

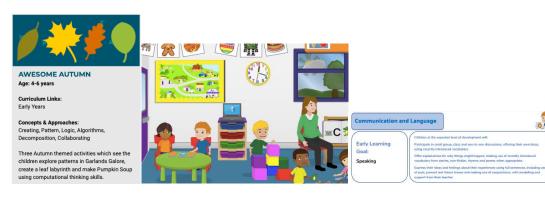
Purple Mash Computing Scheme of Work – Unit 1.1 – Online Safety – Lesson 1			Purple Mash Computing Scheme of Work – Unit 1.1 – Online Safety – Lesson 1
pet children thinking about private and personal information and protecting this. You could also link this to a circle time session about looking after and respecting with other and understanding 'things that belong to me' and 'things that Lone Mare'.			Lesson 1 – Safe Logins
6. Let the children log in.			Aima
7. Now, show the children the Avatar you have created and talk to them about why It's useful to have a science that clocks like you when you have logged in and how helpful it is for the teacher to see that it is you. Now, briefly touch on why people scar avatars rather than their own photos: because when you start to use posters compared so that you write the science exercising at the science of the scien			To login safety with their own logins and understand why that is important. To create their own water and its understand what this is all only the it is sed. To be able to create their own picture and add their name to it. To start to understand the idea of "ownership" of their oranies to it. To start to their the idea of "ownership" of their oranies with. To set their work to their dwy Work areas and understand that this is their space.
8. Show the children how to create their own avatar, let them have a try with some of the random pictures and then let them make an avatar which looks like them.			Success otheria
The avatar creator is next to the Logout button. Click on the image (which will just be a gray outline image if an avatar has not yet been created).			Children can bag in to Purple Mask using their own login. Children understand the importance of loging in safely. Children have created their own evalue and understand why it is useful. Children can add their name to a pulsicure that they created on the computer. Children are beaming to devide their ownstanding of ownerships of evaluation.
The avatar creator will open ready for the children to be creative.			 Children can save their work in the My Work folder in Purple Mash and understand that this is a private saving space just for their work.
			Resources
	PURPLE MASH COMPUTING SCHEME Unit: 1.9 - Tec		Individual login cards for the children. These can be made using the Phint Pupils Login icon in the Adv section.
	Key Learning	Key Vocabulary	Admin Expen
	To walk around the local community and find examples of where technology is used.	Technology - Science and regimenting investings put into practical use to	 Purple Mash Avatar creator; this is opened by clicking on the user portrait near the top right of the screen.
12. Once they have logged in and created a new avatar, show the children the Paint Projects in the Tools action. You might need to demonstrate how to scroll down the case to the Art and Desian lection.	To record mampins of technology outside achool.	where problems ar invest could look.	 Create your own avatar in advance for showing to the children.
ection. You might need to demonstrate how to scroll down the page to the Art and Design section.	Contraction of the second second second	Key Questions	Activities 1. The children might have used Purple Mash during the Foundation State but are unlikely to have user
	Key Resources	Technology is the use of knowledge	individual logins. If they have, this will be a good time to remind the children about logging in to Purple M if they haven't, it's a great introduction to learning about keeping login information safe.
		what is to invest new devices or book.	Before giving the logins out to the children, talk to them about Purple Mash and how it is their own space for working and saving what they do.
Scroll down this section and let the children select a picture they would like to create.		Throughout fixtory, technology has made people's lives easier.	3. Demonstrate how to login using your teacher's login and how important it is that you keep your logi
 At the bottom of the picture there is a space for the children to write their name. 	mash 🚽 🔜		safe and don't give it to anyone else to use. Explain why the password comes out as ""'s if you type and wi you wouldn't tell the children your passeons.
	ADC C	F Technology has made tile easier in many areas. It is now much easier to	4. Give all the children their own login cards.
TO REAL		conversionate around the world.	5. The picture passwords look like this and can be either two- or four-
		technology In reach the sector can have be sent	digit.
		and received in seconds. We are	Discuss what children should do if they find someone else's login card?
		surrounded by technology from	Talk about keeping their login details safe. Start to get children to think about what someone with bad intentions could do if they logged in as you e.g. spoil your work. The idea

SEND & Pupil premium

Pupils all learn at different rates and with have a range of learning styles, lessons are adapted to reflect the needs of the class and individuals in class so that everyone can succeed. The computing class teacher will adapt resources as needed. Pupils who are working towards the expected level may be provided with extra computing sessions and after school clubs to support them within their progression.

<u>EYFS</u>

Despite computing not being explicitly mentioned within the <u>Early Years Foundation Stage (EYFS) statutory</u> <u>framework</u>, which focuses on the learning and development of children from birth to age five, there are many opportunities for young children to use technology to solve problems and produce creative outcomes. Many areas of the framework provide opportunities for pupils to develop their ability to use computational thinking effectively, such as through undertaking projects involving the concepts and approaches suggested by Computing at School's (CAS) <u>Barefoot Computing</u> resources and within the Purple Mash schemes of work (this will be evidenced in the big book and Seesaw. Pupils will then have basic information technology, digital literacy and computer science skills which can be built on when progressing to KS1.



Teachers show children how to access age-appropriate games/apps and use it for a purpose on computers, laptops, IWB and tablets etc. Children are shown how to use a mouse and keyboard to access age-appropriate activities during continuous provision during Autumn and Spring term. Purple Mash has age-appropriate games for EYFS children to access "Mini Mash". This section of the program looks like a classroom, and it gives younger pupils an opportunity to access simple games and activities. In the Summer term, children are taught to log on and access other features of Purple Mash in order to prepare them for KS1. Staff use the Barefoot computing resources to develop pupil's computer science thinking and develop problem solving skills this is done in the classroom and outdoor area.

Understanding the world

Classrooms could contain a role play area with a range of technology, both functioning and model / broken devices, or a variety of electronic toys, such as remote-controlled cars, walkie-talkies and interactive pets, as part of continuous provision. Further technology could be included in conjunction with other activities, such as digital cameras for pupils to photograph their own learning, although children should ideally be given the opportunity to select and use technology for a certain purpose, rather than simply being given a device. The <u>pedagogical approaches</u> used in this age group should also be carefully considered, which includes the need to tinker, or play, with a device, in order to discover how it functions.

Literacy

Bee Bots continue to be extremely popular in both EYFS and Key Stage 1 and provide several opportunities to develop pupils' computing knowledge within literacy sessions. Children could create a story about the Bee Bot's journey, such as around a local area or a country being studied, or they could sequence events within a story being studied. For example, children could guide the Bee Bot between different locations, characters and locations within Little Red Riding Hood. Should devices not be available, the Barefoot website has <u>Fake Bots</u> available, which children can use instead of a digital device. I

Physical development

Many children entering Early Years settings are already familiar with tablet devices, although their ability to use a keyboard and mouse is often limited. This has recently become a more significant issue, due to the <u>prevalence of tablet devices in the home</u>. It is therefore important that children are given opportunities to become familiar with a range of input devices, including the keyboard and mouse, in order to develop the required fine motor skills. Usage could be linked to phonics sessions, such as using drill and practice games, including <u>Dance Mat Typing</u> or the <u>Animal Typing app</u>, or more creative outcomes, as described when examining the areas below.

Communication and language

Unplugged activities, or those away from the machine, give children an opportunity to develop their understanding of technology without the need for expensive devices. Children could be asked to give precise instructions verbally, such as through giving instructions to a <u>sandwich making robot</u>, with links made to the importance of using the correct vocabulary, along with speaking clearly and precisely. Giving instructions could also form part of sessions linked to physical development activities, such as determining rules for certain playground games.

Personal, social and emotional development

Voice recorders, or the microphone built into a tablet device, could be used to record how pupils are feeling, or to discuss their relationships with others. This could be extended through pupils creating their own videos, which could also link to children giving online safety guidance to their peers on appropriate

use of technology and what to do if they feel worried or concerned when using a device. A range of ageappropriate books are now available for young children to examine online safety, such as <u>Chicken Clicking</u>, <u>Goldilocks (A hashtag cautionary tale)</u> and the free <u>Smartie the Penguin</u>. Using voice and video recorders also allows children to self evaluate their own speaking.

Expressive arts and design

The use of painting and graphics applications can further develop pupils' keyboard and mouse skills, whilst a range of tablet based apps are also available, such as the free <u>Doodle Buddy</u>. Creative outcomes can be produced, which allows pupils to take <u>ownership of their work</u> and could even be part of an extended project. Outputs produced could be linked to other uses of technology, such as producing mats for Bee Beets to travel around, whilst other physical computing devices, such as <u>Spheros</u>, can even be put into paint and controlled using a tablet device to produce images. Outfits for a device to wear, such as Bee Bot head dresses or Sphero paper cup people, could also be developed.

Mathematics

Controlling devices provides an excellent opportunity to develop pupils' understanding of left and right, along with directional language. Pupils could be asked to guide a device around a shape, or even use activities from computing related websites, such as code.org, to develop their understanding further. However, whilst such activities can effectively engage pupils in programming tasks, their usage should be carefully considered to ensure they have a purpose.

<u>KS1</u>

In Key Stage 1, pupils are primarily taught through the Purple Mash units, which links directly to National Curriculum statements. Each of the lessons are designed to be interactive; each 'aim' per lesson is linked to key objectives and the resources are attached within the Purple Mash program. The subject leader and computing teacher will discuss the long-term plan at the start of the academic year to discuss any edits to the units.

					- 10 pe	water computing scheme	OL MORE . PART	1004-100-1
Year 1 Whole Year Overview								
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								30 31
Unit 1.1	Unit 1.2	Unit 1.3	Unit 1.4	Unit 1.5	Unit 1.6	Unit 1.7	Unit 1.8	Unit 1.9
Online Safety &	Grouping	Pictograms	Logo Builders	Mase	Animated Story	Coding	Spreadsheets	Technolog
Exploring Purple Mash	& Sorting			Explorers	Books			outside school
Number of			Weeks - 3	Weeks - 3	Weeks - 5	Weeks - 6	Weeks - 3	Weeks - 2
Weeks - 4						Programs - 2Code		Programs
Tools Used -	- 2Qu4z		2048	266	2Create A Story		2Calculate	Writing
Avatar creator		2Connect	Paint Projects					Templates
Paint Projects			mining					
Writing			Templates					
Templates								
2Count								
(Pictograms)								
		1					1	
	Exploring Purple Mash Number of Wireks – 4 Tools Used – Austar creator Paint Projects Worting Templates	Unit 1.1 Unit 1.2 Online Taffery & Grouping Exploring Purple Mash Number of Wreeks - 4 Wreeks - 4 Wreeks - 4 Programs Tools Unit - - 20uit Austra Creation Paint Projects Writing Tamplatos 2Count (Pricing mail)	2 2 3 4 5 4 2 8 9 Use 11 3 Use 12 5 Use 1 Use 12 5 Use 1 Use 1	1 2 3 4 5 6 7 8 9 30 11 12 Unit L3 Unit L4 Unit L3 Unit L3 Unit L4 Unit L4 <t< td=""><td>1 2 8 4 5 6 7 8 9 30 11 13 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Maxe Maxe Maxe Raw 1.5 Maxe Loh 1.5 Maxe Loh 1.5 Maxe Loh 1.5 Loh 1.5</td></t<> <td>1 2 8 4 5 6 7 8 9 30 11 13 13 14 15 16 17 18 16 10 11 13 13 14 15 16 17 18 16 10 11 13 13 14 15 16 17 14 16 15 10 17 18 16</td> <td>Year 1 Whole Year Overview 1</td> <td>Year 1 Whole Year Overview 1</td>	1 2 8 4 5 6 7 8 9 30 11 13 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Loh 1.4 Loh 1.5 Maxe Maxe Maxe Raw 1.5 Maxe Loh 1.5 Maxe Loh 1.5 Maxe Loh 1.5 Loh 1.5	1 2 8 4 5 6 7 8 9 30 11 13 13 14 15 16 17 18 16 10 11 13 13 14 15 16 17 18 16 10 11 13 13 14 15 16 17 14 16 15 10 17 18 16	Year 1 Whole Year Overview 1	Year 1 Whole Year Overview 1

Computing Progression N.C. Statements KS1 Year 1

		Computer Science		Information Technology	Digital Literacy		
Statement	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Create and debug simple programs.	Use logical reasoning to predict the behaviour of simple programs.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Recognise common uses of information technology beyond school.	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.	
Outcome	Children understand that an algorithm is a set of instructions used to solve a problem or achieve an objective. They know that a computer program turns an algorithm into code that the computer can understand	Children can work out what is wrong with a simple algorithm when the steps are out of order, e.g. The Wrong Sandwich in Purple Mash and can write their own simple algorithm, e.g. Colouring in a Bird activity. Children know that an unexpected outcome is due to the code they have created and can make logical attempts to fix the code, e.g. Bubbles activity in 2Code.	When looking at a program, children can read code one line at a time and make good attempts to envision the bigger picture of the overall effect of the program. Children can, for example, interpret where the turtle in 2Go challenges will end up at the end of the program.	Children are able to sort, collate, edit and store simple digital content e.g. children their work and follow simple instructions to access online resources, use Purple Mash 2012 example (sorting shapes), 2004 design mode (manipulating backgrounds) or using pictogram software such as 2Count	Children understand what is meant by technology and can identify a variety of examples both in and out of school. They can make a distinction between objects that use modern technology and those that do not e.g. a microwave vs. a chair.	Children understand the importance of keeping information, such as their usernames and passwords, private and actively demonstrate this in lessons. Children take ownership of their work and save this in their own private space such as their My Work folder on Purple Mash.	

Computing Progression N.C. Statements KS1 Year 2

Computer Science Information Technology Digital Literacy Understand what Create and debug simple Use logical reasoning to Use technology purposefully ecognise common uses Use technology safely and respectfully, keeping personal information private; identify where to algorithms are; how they are programs. predict the behaviour of to create, organise, store, manipulate and retrieve of information technology implemented as programs on digital devices; and simple programs. beyond school. digital conte go for help and support that programs execute when they have concerns about content or contact on the internet or other online by following precise and unambiguous instructions technologies. Children can effectively Children know the Children can explain that an Children can create a simple Children can identify the Children demonstrate an retrieve relevant, purposeful algorithm is a set of program that achieves a parts of a program that ability to organise data using, for example, a database such implications of digital content using a search engine. They can apply their learning of instructions to complete a specific purpose. They can respond to specific events inappropriate online searches. Children begin to task. When designing also identify and correct and initiate specific actions. as **2investigate** and ca eve specific data for simple programs, children some errors, e.g. Debug For example, they can write understand Challenges: Chimp. Children's program designs display a growing awareness conducting simple searches. Children are able to edit more complex digital data such as how things are shared electronically such as posting work to the Purple show an awareness of the a cause and effect effective searching beyond need to be precise with their algorithms so that they sentence of what will happen in a program. can be successfully of the need for logical, 2Publish example template Mash display board. They compositions develop an understanding of using email safely by using **2Respond** activities on Purple Mash and know converted into code. programmable steps. ithin <mark>2Sequence</mark>. Children technology they see around them, coding and ire co creating naming, saving and retrieving nt. Children use a rang multimedia work they do in off media in their digital of media in their digital content including photos, text and sound. ways of reporting inappropriate behaviours g. <u>animations</u> interactive code and programs. and content to a trusted adult.

Staff are offered technical support during 'webinar' training as well as contacting the Computing Coordinator and other teachers. Any technology issues that cannot be resolved within school should be reported to Sophie Clayton (office) to be transferred to Calderdale ICT support

All classrooms have a minimum of two computers so that technology can be seen as an important part of our daily lives. All teachers have access to Purple Mash and can set up '2dos' for pupils in their class this might be as a lesson starter, catch up or to embed knowledge or skills further.

<u>Assessment</u>

Pupils receive feedback at different points within the lesson, two pupils will be chosen as the weekly 'Computing Star Workers.' They will receive a star displaying their achievements, which is added to the computing blog and is shared with parents.



The computing teacher (Charlene Kerry) will complete the assessment document which is designed to be filled in at the end of each unit and then the end of the academic year. Unless stated it is assumed that the children are working at the expected outcomes for each unit. Only children not achieving the expected outcomes or those digging deeper need to be listed. This information is then added to Target Tracker. This assessment information highlights any missing skills which is used to provide pupils with opportunities to practice skills, within the classroom, integrated within future lessons or at an additional club. The computing teacher will set end of unit quizzes that test pupils skills and knowledge on what they have learnt. The teacher will set previous unit quizzes or extra "to dos" at different points within the year to ensure that pupils are retaining knowledge and skills within their long term memory.

vith emergin	g or exceeding achievements.				
Assessment Guidance					
Emerging	With support, children can save and open sheets (Unit 1.8 Lesson 1), enter a limited quantity of data into cells (Unit 1.8 Lesson 1), manipulate data using the 'move cell' tool (Unit 1.8 Lesson 2) and use the image toolbox to add clipart (Unit 1.8 Lesson 2).				
Expected	Using the 2Calculate spreadsheet, children can save and open sheets (Unit 1.8 Lesson 1). Most Children will be able to save their 2Calculate files, using a memorable file name, to their own personal space on Purple Mash and understand that this can be retrieved later. They can enter data into cells (Unit 1.8 Lesson 1), manipulate data using the 'move cell' tool (Unit 1.8 Lesson 2) and use the image toolbox to add clipart (Unit 1.8 Lesson 2).				
Exceeding	Using the 2Calculate spreadsheet, children can save and open sheets (Unit 1.8 Lesson 1), enter data into cells (Unit 1.8 Lesson 1), manipulate data using the 'move cell' tool (Unit 1.8 Lesson 2) and use the image toolbox to add clipart (Unit 1.8 Lesson 2).				

Teachers can set tasks for pupils to complete based on topics throughout the year which is set as an alert called a '2 dos' on Purple Mash. Teachers and support staff can comment on how well the task has been completed and offer suggestions to improve their work.

Resources & safety

ICT equipment is mainly found within the ICT suite which consists of desktop computers, IWB, cameras and Beebots. The equipment is kept in well ventilated areas, away from any liquids and is kept in either locked cupboards or rooms to ensure security. Classroom ICT equipment is kept locked to comply with GDPR regulations if not in use. Any issues with equipment should be shared with the office staff so that Calderdale ICT can be notified.

Pupils are educated on the importance of Online Safety in all computing lessons. In KS1 there are computing displays that support children in practicing computer skills safely. There are displays around school explaining to pupils what they should do if they see something they do not like. We celebrate Safer Internet Day, in which pupils are educated on keeping safe online.

Parents and carers have an opportunity to access a computing session with the computing teacher which discuss the main components of the computing lessons, Purple Mash and how they can support pupils at home.

<u>IPADS</u>

St Andrew's Infant School is committed to using educational technology to improve further the learning experiences and achievements of all our pupils. iPad technology provides us with opportunities to inspire and motivate our young people to achieve their full potential and engage them fully in their learning.

We believe that the use of an iPad will enhance everyday learning and teaching and in particular will: · Raise educational attainment

 \cdot Create a pupil centred curriculum which will provide engaging pupil centred lessons

 \cdot Enable pupils access to the most up to date educational resources \cdot Raise levels of engagement, motivation and interaction

· Improve facilitation of different learning styles

This policy applies to all pupil users of iPad hardware and software technology in St Andrew's. It applies to all iPads used by our pupils, wherever they are physically located. It is intended to compliment the school's wider E Safety policy and Behaviour and Sanctions Framework. Due to the changeable nature of information and communications technology this policy will undergo periodic review and as such the school reserves the right to amend any sections or wording at any time. The following details define the proper use of the device in school and out of school hours.

- iPads must never be left unattended or in any unsupervised area.
- A protective case must be used with the iPad and have sufficient padding to protect the iPad from normal treatment and provide a suitable means for carrying the device within the school. IPads should always be within the protective iPad case when carried.
- The screens are particularly sensitive to damage from excessive pressure on the screen. Avoid placing too much pressure and/or weight (such as folders and workbooks) on the iPad screen. The iPad screens can be damaged if subjected to rough treatment.

Computing legends

We aim to equip pupils with the knowledge and cultural capital they need to succeed in life. We introduce the children to 'Computing Legends' which are people who have made a significant difference within technology.

EYFS- Walt Disney

Year 1- Elon Musk

Year 2- Ada Lovelace

Useful websites

Parents receive notifications through homework, newsletters and in-house workshops on useful and educational websites that pupils can access at home.

Phonics

Oxford Owl- <u>https://home.oxfordowl.co.uk/</u> in Phase 2 and 3. Watch on You Tube-<u>https://www.youtube.com/results?search_query=geraldine+the+giraffe</u> Alphablocks (a BBC children's show aimed at developing phonics)-

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http://www.bbc.co.uk/cbeebies/shows/alphablocks
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<u>Maths</u>

Maths games- https://www.topmarks.co.uk/maths-games/3-5-years/counting

Ten ways to help your child with maths- <u>http://www.bbc.co.uk/cbeebies/joinin/numberblocks-help-your-child-with-maths</u>

Numberblocks (a BBC children's show designed to help development of

number)- http://www.bbc.co.uk/iplayer/cbeebies/episode/b08r41qb/numberblocks

The Big Number Song (Helps children count to 100 in

1s) <u>https://www.google.co.uk/search?q=the+big+number+song&rlz=1C1VFKB_enGB709GB709&oq=the+big+number+son</u>

g&aqs=chrome..69i57.4440j0j4&sourceid=chrome&ie=UTF-8

Count by 2s- https://www.youtube.com/watch?v=GvTcpfSnOMQ

Count by 5s- https://www.youtube.com/watch?v=EemjeA2Djjw

Count by 10s- https://www.youtube.com/watch?v=Ftati8iGQcs

General Topmarks https://www.topmarks.co.uk/

Education City www.educationcity.co.uk

Cbeebies https://www.bbc.co.uk/cbeebies

Cbbc https://www.bbc.co.uk/cbbc

ICT Games http://www.ictgames.com/

Twinkl <u>www.twinkl.co.uk</u>

Useful Apps

BBC Bitesize



	REC	Year 1	Year 2
Computer science	Beebot	Sorting	Action
computer science	buttons	Criteria	<mark>Algorithm</mark>
	instructions	Instruction	Button
	forwards	Algorithm	Debug/debugging
	backwards	Computer	Event
	direction	Program	Nesting
	move	Direction Challenge	
	go	Arrow	
		Undo	
		Rewind	
		Forward	
		Backwards	
		Left turn	
		Debug	
Digital Literacy		Unit 1.1 online safety	Unit 2.2 online safety
	Safe	and exploring Purple	Unit 2.5 effective searching
	Password –	log in	Search
	Tools	Username	Internet
	Trays Share	Log out Save	Sharing <mark>Email</mark>
	Print	Password	Attachment
	Create	- ussworu	Digital footprint
	Alert		Search engine
Information	Technology	Unit 1:3 pictograms	Unit 2:3 pictograms
Information	Internet	Unit 1.6 animated	Unit 2.4 questioning
Technology	<mark>Mini mash</mark>	story books	Unit 2.6 creating pictures
55	Games	Unit 1.8 Spreadsheets	Unit 2.7 making music
		Pictogram	Unit 2.8 presenting ideas
		Data	Backspace key
		Collate Animation	Copy and paste Columns
		E-book	Cells
		Font	Count tool
		File	Delete key
		Sound effect	Equals tool
		Display board	Lock tool
		<mark>Arrow keys</mark>	Rows
		Backspace key	Spreadsheets
		Cursor	Pictogram
		Columns	Question
		Cells Clipart	Data Collate
		Count	Binary tree
		Delete key	Avatar
		Image toolbox	Database
		Row	Impressionism
		Spreadsheet	Palette
			Pointillism
			Share
			Surrealism
			Template
			Bmp Composition
			Digitally
			Tempo
			Volume
			Concept
			Node
			Animated
			Quiz
			Non-fiction
			Presentation
			Narrative
			Audience