## St Anne's C of E Primary School Curriculum Plan

Subject: Computing

Year: 4

Term: Autumn



Unit: Creating Media - Picture Editing



Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
Image – a picture	That you can find images on the	Images can be changed to create a	Identify changes that can be made
<b>Composition</b> – the way something	internet	particular effect.	to an image and describe the effect
is put together or arranged.	Images can be changed and that	What may be changed in an image.	that these changes can produce.
Edit – to alter or change something	this is called editing.  That you should only download	Why someone might want to change an image.	change the composition of an image by selecting parts of it
<b>Copyright</b> – permission to use something that you find online that	images that are copyright free and that this means you have permission to use them.	Some of the effects that people may want to create when they edit	reflect on the tools used, choices made, and how effective they were.
someone else has created.	How to save an image as a file and	images.	demonstrate their understanding of
Rotate - turn	name a file correctly so that it can be re-opened.	Using 'save as' instead of 'save' allows you to select a new and	the different tools used by verbalising their functions.
Flip – turn over	That there is a difference in the	appropriate name doe an edited file / image.	Identify if an image has been re- touched and why this may have
<b>Superimpose</b> – when an image is	ways that you can save a file so		happened.
put on top of an existing one.	that you can keen an original	How re touching can be used and	Парренеан
<b>Crop</b> – change the size, specifically to make smaller or to get rid of	version of your work and a new version with edits.	some of the positive and negatives impacts of this as an editing tool.	Select appropriate tools to re touch an image.
parts you do not want.	The term 're-touch' and how this can be used in editing images.	How fake images may be produced and why.	

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<b>Re touch</b> – a way to edit an image that is aimed at improving it.	That not all images that they see are real, some images are fake.	Some key elements of an image that might be faked.	Make reasonable judgements about why an image may be real or fake and justify these.
Fake - Not real			Make informed and reasoned
<b>Pixels</b> – small dots of colour that make up an image.			choices about edits they have made to an image and the impact this has had on its audience.
<b>JPEG</b> – a type of file that is specifically for images.			nas nas sir its assistation
Duplicates - copies			

## St Anne's C of E Primary School Curriculum Plan

Subject: Computing Year: 4 Term: Spring



Unit: Computing systems and networks – The Internet



Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
Internet A global computer network providing a variety of information and communication facilities. This information passes through routers.  Network - More than one device connected together.  Router A router directs or 'routes' messages around the internet.  Network Security - tools put in place that protects information being shared on a network and the devices that send and receive it.  World Wide Web is only part of the internet also referred to as www	That information moves around a network.  That a router directs information round a network in the most efficient way.  Different information that can be shared on the World Wide Web.  That websites are on servers all over the world and the internet connects them through routers.  A device needs a web browser to search the world wide web on the internet.  A web browser is used to search for websites.	Why a network needs protecting.  Ways in which the internet allows us to see things on the World Wide Web.  That the Internet and the World Wide Web are not the same thing  The three parts of a web address, www, the organisation, what type of organisation.  From a website address you may be able to know what type of information might be on that website.  That there are different types of web browsers.	Explain that the Internet is made up of lots of networks joined together. A network or networks.  Demonstrate how information is shared across the internet.  To discuss the types of information that might be found on different websites by looking at their website addresses. Give reasons for their answers.  Name several different web browsers.  Can describe some of the advantages and disadvantages of the world wide web.
<b>Website</b> – A collection of information and files that can be	What www stands for.	Websites often have common features. These help us find things	Can escribe and identify the main features of a website.

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seen on the world wide web. This has been created by someone and the information is related to one subject or theme.

**Web Page** - one document or a single part of a website.

**Web Address** – the words, letters and symbols that are typed into a search engine to find a specific website. Each website address is unique.

**Domain name** – the main part of a web address that is unique to that website.

**Browser** lets you search for different websites through the internet.

**Ownership** – when something belongs to someone.

**Content** – documents, images, video and music found on websites on the world wide web.

The World Wide Web is part of the Internet and that it contains websites and web pages.

That a web address is broken down into 3 parts to help you identify where it has come from.

That the Internet and the World Wide Web are not the same thing,

There is different content on the world wide web. Some of it you can use and change and some of it you cant.

That information on the world wide web can be shared incredibly quickly.

on the website and link to other websites.

Some of the advantages and disadvantages of the world wide web.

Content on the world wide web belongs to someone and they decide what people can do with the content they have produced.

That not all information on the world wide web is accurate or true.

To explain how some content on the world wide web can be downloaded and used and some cant. Can give examples of this.

Explain why we need to be careful before we share our own and other peoples information and content online.

Explain how search results on a web browser may be influenced and appear in a certain order.

Can explain how to consider the following when looking for information online –

- If the information is accurate.
- If the information is true
- If the information has been influenced by adverts
- If you are allowed to use or share the information.

## St Anne's C of E Primary School Curriculum Plan

Subject: Computing

Year: 4

Term: Summer Term



Unit: Programming - Programming on screen



Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
<b>Program-</b> a set of instructions followed carefully and in order to instruct a device to do something.	That programming a computer device requires you to use a language that the device	That commands need to be written and communicated in a way that the device understands.	program a computer by typing commands
<b>Commands</b> – a set of accurate instructions.	understands.  There are various different shapes around us that can be reproduced	That repetitions can be used to draw a shape and that repetitions can be repeated many times.	explain the effect of changing a value of a command
<b>Code Snippet</b> –A small part of a set of instructions or code within a program.	using a repeating pattern.  That if you decompose a task you	A count controlled loop is a set of commands that are repeated for a	create a code snippet for a given purpose
<b>Repetition</b> – to do something over and over again.	are breaking it down into smaller parts.	set amount of times.  Why it is useful to decompose a	use a template to draw what they want their program to do
Algorithm – A set of accurate instructions that must be followed in order. How a program performs	A procedure is a named code snippet that can be run multiple times.	How using a procedure when typing code, can save time by directing	write an algorithm to produce a given outcome
a task.	That creating a procedure saves time when typing code.	the device to repeat an action multiple times.	test an algorithm in a text-based language
	To repeat something means to carry it out again in the same way.	That each procedure needs its own name so it can be identified clearly when typing code.	recognise patterns in a sequence

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Count controlled loop	It is important to design a program		use a count controlled loop to
Actions a group of commands in	first by planning it, before starting	That is it important to consider how	produce a given outcome.
the same order repeatedly for a set	to use typed code.	many times a commend or set of	
number of times.		commands must be repeated in	Modify a count controlled loop to
	The starting point and end point	count controlled loop commands.	change a given outcome.
<b>Predict</b> – Make an accurate guess	are important when designing		
about something based on some	typed code.		Can make predictions about what
knowledge.			will happen with designing using a
			count controlled loop.
<b>De bug –</b> To find errors in a			
sequence or program with the aim			
of fixing them.			
<b>Decomposition-</b> breaking things			
own into small parts.			
<b>Procedure</b> – a named code			
snippet that can be run multiple			
times.			