

Year 4 Computing Overview

Green = Computer Science

Blue = Information technology

Orange = Digital literacy & e-safety

		Unit of work	Software & hardware	Curriculum Skills
Year 4	Autumn 1	<p>e-safety (1 Lesson) Think before you post</p> <ul style="list-style-type: none"> - Why do we need to keep personal information secure online? - Know a range of ways to report concerns. <p>Coding Scratch – animated scene</p> <ul style="list-style-type: none"> • to work through a range of challenges using Scratch2. 	Scratch 2	<ul style="list-style-type: none"> • To know the internet is a great way to find information and communicate with people. • To know who to tell and where to report hurtful or harmful online content. • To communicate safely and respectfully online and offline. • To understand that being unkind to someone online is bullying, and is called "cyberbullying" • To know that some things you say, do, and publish online are public and permanent <ul style="list-style-type: none"> • to follow a precise set of instructions • to understand that an "algorithm" is a list of instructions (written in a human language). • To understand that a "program" is a list of instructions in a computer 'language'.

Year 4	Autumn 2	<p>Coding Scratch – animated scene</p> <ul style="list-style-type: none"> • continue to work through a range of challenges using Scratch2. • to design their own animation. 	Scratch 2	<ul style="list-style-type: none"> • To be able to write a program using given code to achieve a specific purpose. • To write simple programs which use the repeat function. • To write programs/code that uses a selection function i.e. if...else... • problem solving, articulating ideas, perseverance, predicting, decomposition, pattern recognition, creativity and communication.
	Spring 1	<p>E-safety (2 Lessons) What is reliable?</p> <ul style="list-style-type: none"> • What does reliable mean? • Why might some things we see online not be reliable? (people and content) –What about sites like Wikipedia? • How could we check reliability? (check 2/3 sites, check website endings) • Children investigate various sites. <p>Create an animation</p> <ul style="list-style-type: none"> • To explore animation software • To design an animation based on a myth/legend 	<p>Google Chrome</p> <p>Kar2ouche</p>	<ul style="list-style-type: none"> • To evaluate whether information found is useful, true, and relevant. • To use keywords effectively on search engines. • To search with key phrases as well as keywords. • To understand the difference between the main results and sponsored results. • To record which websites you have used to collect information from. <ul style="list-style-type: none"> • To make a short animated sequence. • To record audio • To add text and sound
Year 4	Spring 2	<p>Create an animation – continued</p> <ul style="list-style-type: none"> • To explore animation software • To design an animation based on a myth/legend 	Kar2ouche	<ul style="list-style-type: none"> • To make a short animated sequence. • To record audio • To add text and sound

E-safety (2 Lesson) Securing our information

- What is a password? What kind of sites do we use passwords for?
- Password guidelines – how to create ‘strong’ passwords. NB – a strong password is one that contains letters and numbers, upper and lower case, 8 or more characters, is hard to guess and easy to remember – and is changed frequently

Internet, networks and the web

- Understand computer networks including the internet
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- multiple services, such as the world-wide web and the opportunities they offer for
- communication and collaboration

- To choose a safe password.
- To be able to make an appropriate personal profile.
- To only make friends with people you know and trust.
- To understand the risks of communicating with strangers online and the possibility that someone may hide their true identity
- To understand what kinds of personal information are appropriate to share online, including personal details and images.
- To abide by the school acceptable use policy.
- To understand that computer networks, including the internet, are made up of computers connected together.
- To understand that the internet can be used to send data around the world.
- To understand the internet can be used for communication such as email, video conferencing, blogs, forums, social networks and so on.

Summer 2

Create a film to answer the question: What is Barnes Primary doing to be a Sustainable School?

- Research the sustainable areas of the school and photograph them using ipads
- Create a storyboard of ideas to plan a film
- Using Moviemaker on iPads create the film with images, text, film, audio and sound.

Overall

- To make independent choices about what technology is best to use to communicate and present ideas for a specific audience.
- To be able to review and evaluate multimedia work, listen to feedback, and make changes if necessary.
- To create, review, improve, and deliver a presentation on a given topic using text and images and sound.

Sound

- To record audio and delete unwanted recordings.
- To do some simple editing of sound files

Film

- To plan and make short films, made up of several 'scenes'
- To experiment with kinds of shots when filming
- To add titles, text, transitions and effects, where appropriate, to films

Photography

- To take photos by framing shots and thinking about the composition and lighting
- To resize and crop photos
- To add different effects to photos.