

Computing overview for Barnes Primary

Green = CS Blue = IT Orange = DL & e-safety

Year 3 Computing Overview

Green = Computer Science

Blue = Information technology

Orange = Digital literacy & e-safety

	Unit of work	Software & hardware	Curriculum Skills
Year 3 Autumn 1	<p>e-safety - Think before you post</p> <ul style="list-style-type: none"> • What is personal information? • Understand the importance of keeping personal information private. • Understand how to use technology safely and who to tell if they have a problem. • What is an avatar and how could it be used to keep our information safe? 	<p>Lego avatars on reasonablyclever.com</p>	<ul style="list-style-type: none"> • Understand the importance of keeping personal information private. • Understand how to use technology safely and who to tell if they have a problem. • Understand avatars and how they could be used to keep our information safe.

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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Year 3 Autumn 2</p>	<p>Programming/algorithms and games design</p> <ul style="list-style-type: none"> To create a 2 player chase game 	<p>scratch</p>	<ul style="list-style-type: none"> 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'. <p>To write simple programs with specific goals</p> <ul style="list-style-type: none"> To correctly sequence instructions in a program To be able to copy simple code and explain in your own words what it does. To be able to write your own simple program and explain in your own words what it does. <ul style="list-style-type: none"> To be able to independently spot when a program does not achieve a specific goal.
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Year 3 Spring 1</p>	<p>e-safety - Accepting</p> <ul style="list-style-type: none"> Why should we be careful about opening messages and files from people we don't know or are not expecting? What is an attachment? Junk mail? Spam? What kind of thing could be dangerous to accept online (attachments from people we don't know, junk mail, links in texts) <p>Continue with games design</p>		<ul style="list-style-type: none"> To know who to tell and what to do if you see something upsetting on the internet. To begin to have an understanding that it can be difficult to tell if someone is telling the truth about who they really are online.

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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Year 3 Spring 2</p>	<p>Scratch fossil project Create an animation to explain how fossils are created.</p>		<ul style="list-style-type: none"> 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'. To write simple programs with specific goals To correctly sequence instructions in a program. To be able to independently spot when a program does not achieve a specific goal.
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Year 3 Summer 1</p>	<p>e-safety - Meeting</p> <ul style="list-style-type: none"> Why could it be dangerous to talk to strangers online? How do we know that people we meet online are who they say they are? What could they do if a stranger online asks to meet them? <p>Roman blog post</p> <ul style="list-style-type: none"> to understand that computer networks, including the Internet, are made up of computers that are connected to understand the Internet and web can be used for communication such as email, video conferencing, blogs, forums and social networks to create a blog post about Roman artefacts 	<p>j2webby</p>	<ul style="list-style-type: none"> To understand it can be difficult to tell if someone is telling the truth about who really they are online. To know who to tell and what to do if you see something upsetting on the internet. To only make friends with people you know and trust. <ul style="list-style-type: none"> to understand that computer networks, including the Internet, are made up of computers connected to understand the Internet and web can be used for communication such as email, video conferencing, blogs, forums, social networks to add text and images to blogs to use blogs to share ideas to comment on different blogs, adding to a discussion

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Year 3 Summer 2	Self portrait using Serif Draw <ul style="list-style-type: none">• to use layers to create artwork• to take photos by framing shots and thinking about the composition• to resize and crop photos	Serif draw	<ul style="list-style-type: none">• to use layers to create artwork• to take photos by framing shots and thinking about the composition• to resize and crop photos
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