

Computing overview for Barnes Primary

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

Year 5 Computing Overview

Green = Computer Science Blue = Information technology

Orange = Digital literacy & e-safety

	Unit of work	Software & hardware	Curriculum Skills
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Year 5 Autumn 1	<p>e-safety</p> <ul style="list-style-type: none"> • Discuss and define e-safety – focusing on SMART (Safe, Meeting, Accepting, Reliable, Tell). • Review features of an effective poster (look at previous years' work and some existing posters from the internet). • Evaluate poster and identify features – annotate using Skitch. • Email annotated posters. • Create success criteria for creating posters. <p>Microsoft Publisher – e-safety Poster Design</p> <ul style="list-style-type: none"> • Explore Publisher and its various features. • Use publisher to create posters (experiment with background colours, text size, font and colour, use word art, insert images from the internet). • Review posters – peer assess and improve. • Self-assess final posters. 	<p>Publisher</p> <p>Internet</p> <p>Skitch – iPad</p> <p>email</p>	<ul style="list-style-type: none"> • To collect information in different ways • To know who to tell and what to do if you see something upsetting on the internet. • To be polite when talking to people, online and offline. • To begin to understand that you should not share your personal details online. • 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. • To use simple paint packages. • To be able to type log ins and passwords • To close down a programme and log off with support • To use a simple app on a mobile touch screen device • To retrieve work that has been saved in a folder with support • To be able to save work.
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Year 5 Autumn 2	<p>e-safety – Design questionnaire/survey</p> <ul style="list-style-type: none">• Study the Young People and e-safety Survey – Igfl.• Devise e-safety questionnaires.• Respond to questionnaires. <p>Microsoft Excel – data handling</p> <ul style="list-style-type: none">• Explore Microsoft Excel• Input data into cells• Design graphs/charts to display results from e-safety survey.• Review, peers assess	<p>Young People & e-safety survey – Igfl</p> <p>excel</p>	<ul style="list-style-type: none">• To collect information in different ways• To begin to understand that you should not share your personal details online.• 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.• To close down a programme and log off with support• To retrieve work that has been saved in a folder with support• To be able to save work.
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Year 5 Spring 1	<p>Coding - Scratch project</p> <p>Use scratch to create a range of computer programs Understand the language of computer programming Build understanding of computational thinking Build understanding of computational thinking Teach key Computing skills – Sequencing, Inputs, Selection, Repetition, Variables</p>	<p>Scratch</p> <p>Lgfl – Space Adventures resource</p>	<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'.• 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.
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Year 5 Spring 2	<p>Coding – Space Adventures Scratch project</p> <p>Use scratch to create a range of computer programs Understand the language of computer programming Build understanding of computational thinking Teach key Computing skills – Sequencing, Inputs, Selection, Repetition, Variables</p> <p>e-safety – Reliability</p> <ul style="list-style-type: none"> • What does reliable mean? • Why might some things we see online not be reliable? (people and content) • How could we check reliability? (check 2/3 sites, check website endings) • Children carryout Childnet – “Trust Me” activities. 	<p>Scratch</p> <p>Lgfl – Space Adventures resource</p> <p>Childnet – “Trust Me” Primary Pack</p>	<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'. • 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. • 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.
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Year 5 Summer 1	Databases (6 lessons) Lesson Breakdown <ol style="list-style-type: none">1. Number Operations2. Ordering and Presenting Data3. Add, Edit and Calculate Data4. Solving Problems5. Party Plan Budget6. Design You Own	Excel	<ul style="list-style-type: none">- To close down a programme and log off- To retrieve work that has been saved in a folder with support- To be able to save work.- 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.
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Year 5 Summer 2	<p>E-safety (1 Lesson) Securing our information</p> <ul style="list-style-type: none">• 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 <p>Website Design -</p> <ul style="list-style-type: none">• Explore WIX.com – investigating existing webpage designs• Set up account using lgfl emails (e-safety link).• Design website to advert Thames Young Mariners.• Peer assessment/evaluation	<p>password checker</p> <p>wix.com</p>	<ul style="list-style-type: none">• To begin to understand that you should not share your personal details online.• To understand why we might use passwords on computers.• To understand that your password is private information. • To be able to type log ins and passwords• To understand some of the different ways that technology is used at home and school.• To be able to review and evaluate multimedia work, listen to feedback, and make changes if necessary.• To start to recognise the features of web pages.
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