

Computing Year Group Overview



		Autumn	Spring	Summer
Year 1	<ul style="list-style-type: none"> ✓ Communicate online safely and respectfully ✓ Organise, store, retrieve & manipulate data ✓ Recognise uses of IT outside of school ✓ Understand use of algorithms ✓ Write & test simple programs ✓ Use logical reasoning to make predictions 	<p>E-Safety -Evaluate what websites we should go one, who we could ask and what we can click on.</p> <p>ICT- Use PowerPoint to insert given image and their own title.</p> <p>Control and programming- Use A.L.E.X app to write short instructions to achieve a goal.</p>	<p>E-Safety Use gaming website and create avatar using e-safe principles.</p> <p>ICT- -Graphs and databases- collect info about flowers or insects. -Add text on top of images- piccollage/PowerPoint. -Paint/draw themselves and label.</p> <p>Control and programming- Use Beebot app to write a set of instructions to achieve a goal.</p>	<p>E-Safety -Create set of rules for using internet outside of school.</p> <p>ICT -Access given websites to find information about holiday destinations.</p> <p>Control and programming- Use Kodable app to write instructions which can be repeated to achieve a goal.</p>
Year 2	<ul style="list-style-type: none"> ✓ Communicate online safely and respectfully ✓ Organise, store, retrieve & manipulate data ✓ Recognise uses of IT outside of school ✓ Understand use of algorithms ✓ Write & test simple programs ✓ Use logical reasoning to make predictions 	<p>E-Safety -Discuss SMART e-safe rules. Children to produce posters for class.</p> <p>ICT -Find a website by following links set up by teacher -Write their own simple text or poetry on screen -Use puppetpals to record audio.</p> <p>Control and programming -Use A.L.E.X app to create a level that can be completed by predicting logical reasoning.</p>	<p>E-Safety Use class Makewaves profile to make and respond to comments/profile posts appropriately.</p> <p>ICT -Search for given information using text, images and sound. -Use iPad camera software to produce quality news report. -Use PowerPoint to add text, images and animations to a presentation.</p> <p>Control and programming -Use Daisy the dinosaur to use logical reasoning to write simple set of instructions for a program.</p>	<p>E-Safety -Introduce makewaves to responsibly and safely share work.</p> <p>ICT -Create bar graphs showing plant growth over time. -Use links to navigate a website and find information -Sequence photographs saved from internet and add labels (Science) - Write a guide to planting flowers. Add pictures</p> <p>Control and programming -Use Kodable app to write instructions and introduce conditionals.</p>



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Year 3	<ul style="list-style-type: none"> ✓ Use internet safely and appropriately ✓ Collect and present data and information appropriately ✓ Design & write programs to achieve specific goals, including solving problems ✓ Use logical reasoning <ul style="list-style-type: none"> ✓ Understand computer networks 	<p>E-Safety -SAFE e-safe certification stage 1 using Makewaves.</p> <p>ICT -Use Google maps to locate and mark settlements studied in topic. -Use Google maps to investigate geographical features of areas studied. -Make a database of country information. Make fields and enter data as a class. Design questions to analyses data- Textease Database</p> <p>Control and programming Use lightbot to give simple instructions to achieve a goal.</p>	<p>E-Safety Decide on reliability and safety of websites by investigating and looking at web addresses.</p> <p>ICT -Use Microsoft publisher to create leaflet promoting archaeological site. -Access suitable sites selected by the teacher by following links; share suitable sites with others in the class - Create a Then and Now poster using images and text to describe changes in sites. -Use voice audacity to produce a podcast/news report using sound effects.</p> <p>Control and programming- -Use Tynker to write programs to solve a goal. -Use reasoning to find and correct problems in a program.</p>	<p>E-Safety -Explore e-safety implications of devices used outside of school.</p> <p>ICT- -Create stop-motion animation to show transfer of data on computer networks. -Use Sketch Up to create 3D image of tomb/pyramid</p> <p>Computer science- -Understand computer networks using physical simulation. -Computing without computers to develop understanding of computational thinking.</p>
Year 4	<ul style="list-style-type: none"> ✓ Use internet safely and appropriately ✓ Collect and present data and information appropriately ✓ Design & write programs to achieve specific goals, including solving problems ✓ Use logical reasoning ✓ Understand computer networks 	<p>E-Safety -SAFE e-safe certification stage 1 using Makewaves.</p> <p>ICT -Use iMovie to create a news report based on a natural disaster. -Create a Newspaper report, adding text and images and formatting text appropriately.</p> <p>Control and programming -Use Hopscotch to write a list of instructions to complete a task. -Find problems in an algorithm and edit to fix a program.</p>	<p>E-Safety -Understand copyright and use pixabay/google advanced search to find appropriate images.</p> <p>ICT -Use information found online to inform presentation work, without copying and pasting text</p> <p>Control and programming -Use Scratch jr. to develop use of 'block-coding' to build up algorithms to achieve specific goals. -Use reasoning to debug programs to ensure they meet purpose.</p>	<p>E-Safety -Relate e-safety implications on social networks to global communication. -Create e-safety tip sheet for family using devices at home.</p> <p>ICT -Use Google Maps to investigate locality. -Use Paint.NET to create Andy Warhol pop-art style -Use a word processor to write about habitats incorporating text and images using wrapping -Make a simple radio advert promoting their product from workweek. Use Audacity to make simple edits</p> <p>Computer science -Use Google chrome to inspect elements of a webpage. -Edit code using Google Chrome to create own version of webpage, editing titles, text and images. -Explain difference between their own simulation webpages and live HTML.</p>

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Year 5	<ul style="list-style-type: none"> ✓ Use internet safely and appropriately ✓ Understand uses of networks for collaboration & communication ✓ Be discerning in evaluating digital content ✓ Design & write programs to solve problems ✓ Use sequences, repetition, inputs, variables and outputs in programs ✓ Detect & correct errors in programs 	<p>E-Safety -SAFE e-safe certification stages 1 and 2 using Makewaves.</p> <p>ICT -Use publisher to design logo for global brand. -Use Google Maps to investigate World trade. - Make graphs using Create a graph</p> <p>Control and programming -Use Scratch to create simple games by writing instructions using repetition, inputs, variables and outputs. -Debug programs by finding errors in scripts and correct to ensure program works.</p>	<p>E-Safety -Use email appropriately, assessing risk and adding attachments and images. -Check website information for accuracy Identify irrelevant, biased, implausible and inappropriate information</p> <p>ICT -Use stop motion animation to show the development of civilization. - Create a spreadsheet for a product development</p> <p>Control and programming -Use Scratch and makey to write a set of instructions on a computer that will allow physical inputs and outputs in our environment.</p>	<p>E-Safety -Use publisher to create e-safety posters related to different devices.</p> <p>ICT -Use iMovie to record, edit and publish news report about Battle of Hackney- Viking invasion. -Create a quiz by writing non-linear power point about the Vikings. -Use the internet to find pictures suitable for Presentation</p> <p>Computer Science -Explore HTML using inspect element on Google chrome. -Use HTML to write code to produce own webpage.</p>
Year 6	<ul style="list-style-type: none"> ✓ Use internet safely and appropriately ✓ Understand uses of networks for collaboration & communication ✓ Be discerning in evaluating digital content ✓ Design & write programs to solve problems ✓ Use sequences, repetition, inputs, variables and outputs in programs ✓ Detect & correct errors in programs 	<p>E-Safety -SAFE e-safe certification stages 1 and 2 using Makewaves.</p> <p>ICT -Create a hyperlinked powerpoint quiz on 'All living things' - Plan, create, edit and refine an audio book recording of a classic poem or part of book, or of their own writing, complete with sound effects to enhance the atmosphere</p> <p>Control and programming -Use scratch to design and write games that require repetition loops and variables.</p>	<p>E-Safety -Explore which websites, programs, people we can trust online. -Find and email a trusted source to gain more information on a topic.</p> <p>ICT -Create class wikis for use as revision aids. - Use a Google Advanced search engine to find information -Use web-based audio and video resources in the study of persuasive language.</p> <p>Control and programming -Use appshd to create own app for a mobile device.</p>	<p>E-Safety -Create TV documentary to inform younger classes of e-safety implications on devices.</p> <p>ICT -Use iMovie to film, edit and produce documentary including interviews as well as reporting segments. - Use a light sensor to see how changing the batter or wire in a circuit affect the brightness of the bulb -Find 'news' information from different viewpoints and validate information. Skim and select information checking for bias Compare how different sites report world events.</p> <p>Computer Science -Work together to write webpages using HTML incorporating links and images.</p>