



Curriculum Plan - Computing

	Autumn	Spring	Summer
Year 1	In ICT the children will be developing their computing skills by following algorithms. They will become familiar with keyboarding skills and fluency in typing. The children will be introduced to software and how to save and copy and paste.	In ICT the children will be working on improving their keyboard and typing skills. Spring term 2 will be based on internet safety and understanding how to use the internet search or collaborate.	In ICT the children will be thinking about the uses of technology and how reliable information is that they find online. Also continue to develop keyboard skills and internet safety.
Year 2	In ICT we will begin by looking at collecting and presenting data. Children will use a program to display data as charts or graphs and will become familiar with important tools and features, such as print screen and paste. We will also be learning more about how to use technology safely. We will identify where to go for help and support when we have concerns about content or contact on the internet or other online technologies. We will discuss how to keep personal information private when online.	Next term, we will be introducing children to algorithms where they will be exploring how to programme simple movable machines called Bee Bots and use Bee-bots. After this, children will be creating online stories whilst recapping on their e-safety knowledge.	Much of our learning will be focussed around creating simple computer games using dragging skills. We will move on to simple animations using images and school web cams and create story lines linking to our English work.
Year 3	In ICT children will use the software Scratch to design and create their own simple computer games. They will use blocks to create sets of instructions be able to link keyboard or mouse actions to onscreen actions and be able to edit and refine commands. In Autumn 2 they will use 2DIY to continue to develop their game creating skills by being able to identify different genres of games, plan levels where characters have to navigate vertically and know the difference between scrolling and static game screens. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.	In ICT lessons we will be using probots, bluebots and logo to develop control and give instructions. We will be using iPads to plan out the instructions for our bots. We will begin to understand what a network is, how information is sent via the internet and how our devices can be linked. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.	We will learn how to use search engines effectively. We will use this knowledge to use the internet for research and then we will have opportunities to present our findings. In summer 2 we will be creating multimedia presentations. In this topic we will explore how to insert images, text and videos into documents. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.
Year 4	In our ICT lessons, we will be learning about different online media and then we will edit photos and create our own on-line magazines. We will also learn how the school network runs and then look at increasingly large networks including the internet to understand how they work. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.	During our ICT lessons we will be learning about HTML, writing simple instructions using HTML and create our own website. Children will increase their understanding of control by using repetition in programming for Blu-bots and planning how to avoid obstacles. They will also study how to use sensors to alter programming. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.	During our ICT lessons, we will be learning about animation and filmmaking. We will use Digital Blue camera and begin to edit, creating our own movies. We will use software to create a game and then look at how games are marketed before creating a final game product to be 'released'. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.
Year 5	Our ICT topic this term will be a Computer Animated Design software called 'Sketch up.' Children will learn how to design and replicate using scale. They will develop and edit designs of the school building and their 'dream school.' Children will develop items to be 3D printed. Children will reflect on E-safety, learning more about safety required when uploading and importing from the internet.	Our next ICT topic is Web apps. Children will learn about how web apps work and how to create their own. They will also design, edit and evaluate their work. Children will learn how to use networks and creation tools such as google docs to collaborate on a project. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.	In computing we will continue to look at Audacity; a sound editing programme where children can layer and manipulate music and sounds.' They will take this learning on by learning how to create a podcast applying all taught skills including collaborative skills to create a script. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.
Year 6	In ICT children will be focusing on digital photography. Children will be taking their own pictures and experimenting	In ICT children will develop their understanding of programming to create their own computer game using	In ICT we will be consolidating all the skills children have learnt throughout KS2 to work collaboratively using Google drive and



	<p>with different features of technology including light, still pictures and action shots. In addition children will be using school software to edit these pictures and improve their work.</p> <p>Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.</p>	<p>Microsoft's game creation tool, Kodu. This will then be shared with others and enjoyed. Children will also study phone apps and create their own app based on the school.</p> <p>Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.</p>	<p>google docs. During summer two, we will be using all our ICT skills to create a year book based on the highlights of year 6. Children will study E-safety, learning about how to stay safe online and being a responsible 'Digital Citizen'.</p>
--	---	---	---

ICT Whole School Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Create cards, stories and take photos digitally.	Develop simple programs using bee-bots and 2Go	Practise and refine keyboard skills	Using safe internet searches.	Recognise common uses of technology beyond school.	Know what is reliable information online.
Year 2	Collect data and display using software.	Using technology safely and telling others.	Know what algorithms are and use Bee-bots.	Create an online story working with others.	Create simple computer games using dragging skills.	Capture images using webcams and create animations.
Year 3	Use Scratch to make a simple computer game.	Use 2DIY to develop platforming games.	Use Repetition in logo and pro-bots.	Understand computer networks including the internet.	Use search technologies effectively.	Create, multimedia presentations and make QR codes.
Year 4	Create an online multimedia magazine.	Use the internet to gather data and present it.	Know and use HTML.	Use repetition in pro-bots to navigate obstacles.	Stop motion animation	Create games using 2DIY
Year 5	Google sketchup	Use scratch to write complex programs	Create webapps.	Work collaboratively online	Audacity sound recording	Audacity sound editing
Year 6	Digital photography and editing	Design an e-book.	Edit and develop web and phone apps.	Create computer games using kodu	Work collaboratively online.	Create a school year book.