St George's Catholic Primary School
Computing Overview
We are learning and growing together as God's family. We will always do our best to love and respect each other as we prepare for our future

Link Colour Key	Social	Moral	Spiritual	Cultural

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn Term	**Topic**	**We Are Celebrating** ~ **Creating A Card Digitally**	**We Are Detectives** ~ **Communicating Clues**	**We Are Opinion Pollsters** ~ **Collecting and Analysing Data**	**We Are Software Developers** ~ **Develop a Simple Educational Game**	**We Are Architects** ~ **Create a Virtual Space**	**We Are App Planners** ~ **Design and present an app idea**
	Progression	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	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. Understand computer networks, including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.	Design, write and debug programs that accomplish specific goals. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	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.	Investigate the internet and understand the meaning of e-safety. Develop an understanding of smart phones, technology and designing and presenting an app idea.
	Skills	Develop basic keyboard skills Opening and saving files Mouse skills	Opening, composing and sending emails Editing/ keyboard skills Use technology safely	Designing surveys Using the internet to facilitate data collection	Use selection and repetition on Scratch Use input and outputs Debug programmes	Use software to create a space for a particular goal Collect, present and evaluate	Use search technologies and understand ranking of sites. Work with various forms of input and output.

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Spring Term	**Topic**	**We Are TV Chefs** ~ **Filming the Steps of a Recipe**	**We Are Zoologists** ~ **Bug Hunt Data**	**We Are Communicators** ~ **Communicating Safely on the Internet**	**We Are Musicians** ~ **Produce Digital Music**	**We Are Bloggers** ~ **Sharing Experiences and Opinions**	**We Are Project Managers** ~ **Manage a project**
	Progression	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Recognise common uses of information technology beyond school.	Understand computer networks, including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration. 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. Use technology safely, respectfully and responsibly; recognise acceptable /unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Understand computer networks, including the internet; and the opportunities they offer for communication and collaboration. Be discerning in evaluating digital content. 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	Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration. 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. Use technology safely, respectfully and responsibly; recognise acceptable /unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Developing project management skills. Scope a project to identify different components that must be successfully continued. Identify the component tasks of a project and develop a timeline to track progress.
	Skills	Use a video to capture moving images Develop collaborative skills by working in a group Evaluate and discuss improvements	Collect data Sort and classify groups Create graphs using software	Opening, composing and sending emails Communicate with a remote partner	Create a digital composition using Isle of Tune Evaluate the piece against the outcome Work collaboratively	Create a sequence of blog posts on a theme Responding to digital content. Commenting on peers work.	Solve problems by decomposing them into smaller parts. Select, use and combine a variety of software on a range of digital devices and create a range of program systems that accomplish given goals.

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Summer Term	**Topic**	**We Are Treasure Hunters** **Using Programmable Toys**	**We Are Journalists** ~ **Publish a Newsletter**	**We are Presenters** ~ **Video Performance**	**We are Co-Authors** ~ **Produce a Wiki**	**We Are Game Developers** ~ **Developing an Interactive Game**	**We Are Market Researchers** ~ **Plan and conduct market research**
	Progression	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Work with various forms of input and output. Use technology safely, respectfully and responsibly. 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.	Solve problems by decomposing them into smaller parts. Use search technologies effectively. Use technology safely, respectfully and responsibly; recognise acceptable /unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. 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	Create a set of good survey questions and analyse the data obtained. Conduct an interview or focus group and analyse and interpret the information. Present their research findings.
	Skills	Know that algorithms are a set of instructions. Develop sequence of instructions on a programmable toy(Bee-Bots)	Combining images and texts Using the internet to source pictures (taking, selecting and importing)	Shooting live video-framing shots Holding the camera steady Reviewing and edit video	Research skills Proofreading skills Share information on the internet	Design and create a programme Programming using a sequence of instructions (algorithms)	Select, use and combine a variety of software on a range of digital devices and create a range of program systems that accomplish given goals. Use technology safely, respectfully and responsibly.