Sacred Heart RC Primary School
'Where Every Heart is Sacred'
Subject: Computing

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	**All About Me** Exploring technology through role play (e.g., iron, microwave, telephone, computer)	**Twinkle Twinkle Little Star Do You Know What Colours Are?** Exploring technology through role play (e.g., iron, microwave, telephone, computer)	**Who Are You Going to Call?** Begin to use the iPads to move objects and draw through games and apps.	**What Do We Grow?** Create a drawing of a butterfly using a simple program.	**Once Upon a Time** Record a video telling a story. Take pictures of fairy tale settings during continuous provision.	**Wish You Were Here** Introduce laptops. Clicking and dragging games using a laptop.
Reception	**Marvellous Me and My Family** Taking selfies using an iPad Draw self-portraits using mouse control. Following instructions – handwashing, obstacle courses Sort and categorize (eye colour, hair colour ect)	**Let's Celebrate** Create firework pictures and Diwali patterns digitally. Sorting and counting	**Amazing Animals** Clicking and dragging games (laptops) Sorting and categorizing animals. Creating a graph/bar chart to represent animals and interpreting the data. Explore and understand the concept of branch databases	**Outside Our World Inside Our Hearts** Take photos of the chicks using an iPad or camera to keep a class chick diary. Clicking and dragging games.	**Planet Earth and Beyond** Explore hardware through space tuff tray. Google Sky	**All Around the World** Begin to type on devices – searching for countries. Creating maps and routes for the BeeBot to follow. Program the BeeBot to move. Google Earth

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS1 Cycle A **Yr 1 Online** **Safety: 4 lessons**	Improving mouse skills **NC** - to use technology purposefully to create, organise, store and manipulate and retrieve digital content. **NC** - To recognise common uses of information technology beyond school. **NC** - To 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.	Algorithms unplugged **NC** - Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. **NC**- Create and debug simple programs. **NC** - Use logical reasoning to predict the behaviour of simple programs**.**	Rocket to the moon **NC** - Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	What is a computer? **NC** - Use technology purposefully to create, organise, store, manipulate and retrieve digital content. **NC** - Recognise common uses of information technology beyond school.	Algorithms and Debugging **NC** - Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. **NC** - Create and debug simple programs.. **NC** - Use logical reasoning to predict the behaviour of simple programs.	Word processing NC - Use technology purposefully to create, organise, store, manipulate and retrieve digital content. **NC** - Use technology safely and respectfully, keeping personal information private.
KS1 Cycle B **Yr 2 Online Safety**	Programming: Beebot	Introduction to data	Data handling: International Space Station	Creating media: digital imagery (Google)	Creating media: Stop motion (iPads)	Programming: ScratchJr
LKS2 Cycle A **Yr 3 Online** **Safety: 4 lessons**	Networks and the internet (Google)	Programming: Scratch	Video trailers (iPads)	Website design (Google)	Further coding with scratch (Google)	Computational Thinking
LKS2 Cycle B **Yr 4 Online Safety**	Emailing (Google)	Data handling: Comparison cards databases (Google)	Journey inside a computer	Collaborative learning (Google)	Investigating Weather	HTML
UKS2 Cycle A **Yr 5 Online** **Safety: 5 lessons**	Search Engines (Google)	Programming: Music (Scratch)	Stop motion animation (Stop Motion Studio - iPads)	Big Data 1	Big Data 2	Intro to Python

UKS2 Cycle B Yr 6 Online Safety	Data Handling: Mars Rover 1	Mars Rover 2	AI	Bletchley Park and the history of computers	Micro:bit	Inventing a product