

Sacred Heart Catholic Primary School

Computing Overview

2022 - 2023

Autumn

Spring

Summer

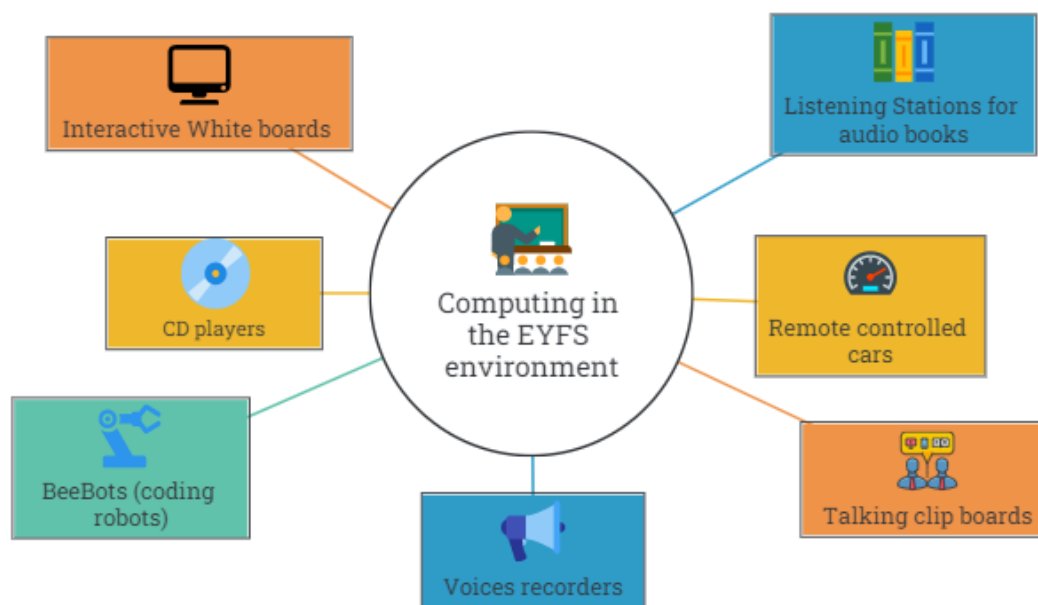
Computing in the EYFS

- EYFS Area of learning • Understanding the world

Through the learning environment and child led activities, children will be encouraged to talk about and interact with a range of different digital systems, all of which are designed to help aid them becoming digitally literate.

Children will explore technology through interactive whiteboards and ipads, with opportunities to listen, take photos and create drawings. Equipment such as voice recorders and sound books also enhance opportunity for talk.

Enhancements such as remote controlled vehicles, bee bots and coding equipment can also be used to further enhance a child's area of interest. Technology is threaded through the environment, planning enhancements and continuous provision throughout the school year.



Key Stage 1 – Year 1

<u>Online Safety / Introduction to SeeSaw</u>	<u>Programming: Unplugged</u>	<u>Online Safety</u>	<u>Programming – Code.org</u>	<u>Topic link –Eyes on our planet</u>	<u>Online Safety</u>	<u>Topic link – Superheroes</u>	<u>Topic link – Amazing Animals</u>
<p>Discuss safety rules/sign AUP/2-hand rule. Using QR Code to log onto SeeSaw. Using green add button. Using microphone/camera. Posting work.</p> <p><u>‘Jessie and Friends’</u></p> <p>Following scheme and completing activities via SeeSaw e.g. Identifying/drawing their trusted adults. Keeping passwords/information safe.</p>	<p>Islington SoW Unit 1 Bee-bots</p> <p>CAS KS1 Unit: Crazy Character Algorithms</p> <p>CAS Beebot KS1 Unit</p> <p>Bearfoot Computing Dance Move Algorithms (Unplugged)</p>	<p>Key Safety Topic / Recap SeeSaw file Management Skills</p>	<p>Unit A: Drag and Drop Sequencing Intro to Loops</p>	<p>Purple Mash – Unit 1.6</p> <p>Create animated information pages of a book.</p>	<p>Key Safety Topic / Recap SeeSaw file Management Skills</p>	<p>Purple Mash / LGfL JiT</p> <p>Digital painting projects using 2Paint / 2paint A Picture</p>	<p>Purple Mash – Units:</p> <p>1.2 Grouping and Sorting (Animals)</p> <p>1.3 Pictograms (creating graphs to show favourite animals)</p>
<p align="center">Key Stage 1 – Year 2</p>							

<u>Online Safety / Recap / Consolidate Using SeeSaw</u>	<u>Programming:</u> CAS BeeBots 1,2,3 Activity.	<u>Online Safety</u>	<u>Topic link - London's Burning</u> Animation: Purple Mash - 2Animate	<u>Handling Data Spreadsheets</u> Purple mash Unit 2.3 – 2Calculate	<u>Online Safety</u>	<u>Data</u> Creating Pictograms PurpleMash Unit 2.6	<u>Topic link – Landmarks</u> Word Processing / Publishing Purple Mash – 2Publish
<p>Discuss safety rules/sign AUP/2-hand rule (to carry iPads) Using QR Code to log onto SeeSaw. Using green add button. Using microphone/camera. Posting work.</p> <p><u>‘Jessie and Friends’</u></p> <p>Recapping key points (1st covered in Y1) Following scheme and completing activities via SeeSaw e.g. Identifying/drawing their trusted adults. Keeping passwords/information safe. Knowing what to do if upset by content.</p>	<p>Using Code and Go Mouse – recapping algorithms from Year 1.</p> <p>Code.org Course A</p> <p>Develop sequential algorithms.</p> <p>Consolidate debugging process.</p> <p>Identify pattern/repetition to use repeat loops.</p>	<p>Key Safety Topic / Recap SeeSaw file Management Skills</p>	<p>Introduction to animation – retelling the story of the Great Fire of London.</p>	<p>Introducing basic spreadsheet skills.</p>	<p>Key Safety Topic / Recap SeeSaw file Management Skills</p>	<p>Impressionism Pointillist Art Patterns (W. Morris)</p> <p><u>IT - Creating Digital Media</u></p> <p>Digital Photography (Islington SoW Unit)</p>	<p>Creating pages of a book based on famous landmarks.</p> <p>To incorporate skills from PurpleMash Unit 1.6 (Animated text and pictures) not covered in previous year</p>

Lower Key Stage 2 – Year 3

<u>Online Safety / Introduction to SeeSaw</u> Introducing S.M.A.R.T.Rules following Captain Kara series. Use various input methods on SeeSaw to cover each of the 5 SMART Rules e.g. Drawing Taking Photos Recording on mic. Creating Video Develop basic file management on SeeSaw including: Saving Posting Sharing Editing	<u>Programming: Code.org Course C</u> Develop Sequential Algorithms Recap Debugging Create Art Through Code Loops Using Loops in Art	<u>Online Safety</u> Key Safety Topic / Recap SeeSaw file Management Skills	<u>Topic link - Meet the Flintstones</u> LGfL Prehistoric App Purple Mash Unit 3.2 Safer / more efficient internet search techniques. <u>Word Processing / Publishing</u> PurpleMash – 2Publish Creating Digital Factfile	<u>Topic Link – Eyes on our planet</u> PurpleMash 2Quiz – create own quiz based on European cities and landmarks. Introduce different types of question inc: Picture Multiple Choice Matching Labelling	<u>Online Safety</u> Key Safety Topic / Recap SeeSaw file Management Skills	<u>Topic link – The Shang Dynasty</u> PurpleMash – 2Paint a Picture Art Project experimenting with different paint media including acrylic, poster, oil, water paints.	<u>Topic Link Misty Mountains</u> Data – Databases / Branching Databases PurpleMash Unit 3.6
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Lower Key Stage 2 - Year 4

<p><u>Online Safety / Recap Skills on SeeSaw</u></p> <p>Discuss safety rules/sign AUP</p> <p>Introduction to Band Runner Activity (thinkuknow.co.uk)</p> <p>Use various input methods on SeeSaw to complete workbook activities e.g.</p> <p>Drawing Taking Photos Recording on mic. Creating Video</p> <p>Develop basic file management on SeeSaw including:</p> <p>Saving Posting Sharing Editing</p>	<p><u>Programming</u></p> <p>Code.org Course D</p> <p>Consolidate sequence / debugging skills. Loops / nested loops. Events. Conditionals - If / Else.</p>	<p><u>Online Safety</u></p> <p>Key Safety Topic / Recap SeeSaw file Management Skills</p>	<p><u>Topic link – Invaders</u></p> <p>Animation</p> <p>Purple Mash 2Animate depicting tribes invading / settling.</p>	<p><u>Blogging Topic Link – Eyes on our planet</u></p> <p>Purple Mash Unit 6.4 / Islington SoW</p> <p>Basic understanding of how to plan, create and present their own blog.</p>	<p><u>Online Safety</u></p> <p>Key Safety Topic / Recap SeeSaw file Management Skills</p>	<p><u>Topic Link – Mexico and the Mayans</u></p> <p>PurpleMash – Making Music Unit 4.9</p> <p>Creating Media – Audio Editing (Audacity) Islington SoW</p>	<p><u>Digital Literacy</u></p> <p>PurpleMash</p> <p>Unit 4.8 (Hardware Investigators)</p> <p>Incorporate PurpleMash Unit 3.2 Safer / More Efficient Search Skills (not covered in previous year)</p>
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Upper Key Stage 2 - Year 5

<u>Online Safety / Introduction to Google Classroom</u>	<u>Programming: Code.org</u>	<u>Online Safety</u>	<u>Topic link – Rule Britannia</u>	<u>Topic link – Eyes on our planet</u>	<u>Online Safety</u>	<u>Data Handling – Purple Mash Unit 5.3</u>	<u>Topic Link – Wild Water</u>
<p>Discuss safety rules/sign AUP. Refer to and discuss throughout lessons.</p> <p>Recap key ideas from 'Play, Like, Share' scheme (thinkuknow.co.uk)</p> <p>Complete activities using Google Classroom which will include:</p> <p>Logging On Accessing/Sharing Files Posting/Sharing Content Replying to Assignments Creating /Editing Documents (Docs, Slides) Working Collaboratively Respecting Others</p>	<p>Code.org Module for UKS2 (Y5)</p> <p>Concepts:</p> <ul style="list-style-type: none"> • Selection • Loops • Nested Loops • Variables 	<p>Key Safety Topic / Recap</p> <p>Google ClssRm file</p> <p>Managem ent Skills</p>	<p>PurpleMash 2Quiz</p> <p>Create quiz with more complex variety of questions including matching, sorting, labelling.</p> <p>Introduce Quiz Creation on Kahoot</p>	<p>Multimedia & Word Processing</p> <p>Safer / Effective Searching using Kidzsearch,,Junio rSafeSearch</p> <p>Word Processing (Google Docs) – PurpleMash Unit 5.8</p> <p>(Incorporate Word Processing Skills missed in previous years.</p>	<p>Key Safety Topic / Recap</p> <p>Google ClssRm file</p> <p>Manage ment Skills</p>	<p>2Calculate – introduction to use of formulas and more complex tools (random, counting)</p> <p>Google Classroom (Sheets) Change to creating 'Sheets' to model and solve real-life problems (Farmer and Sheep).</p>	<p>PurpleMash – Unit 5.6 3D Modelling</p>

Upper Key Stage 2 - Year 6

<u>Online Safety / Recap Skills on Google Classroom</u>	<u>Programming</u> Code.org	<u>Digital Literacy / Online Safety</u> <u>Topic link – Crime and Punishment</u>	<u>Networks and Communication</u>	<u>Online Safety</u>	<u>Topic Link – Greece Lightning</u> Multimedia & Word Processing	<u>Digital Media & Design</u>
<p>Discuss safety rules/sign AUP. Refer to and discuss throughout lessons.</p> <p>Recap key ideas from 'Play, Like, Share' scheme (thinkuknow.co.uk)</p> <p>Particular focus on: Being respectful towards others. Recognising threatening/abusive behaviour. Knowing how to respond / report inappropriate behaviour.</p> <p>Complete activities using Google Classroom which will include:</p> <p>Logging On Accessing Files Posting Sharing Content Editing Working Collaboratively Respecting Others</p>	<p>Code.org Module for UKS2 (Y6)</p> <p>Concepts:</p> <ul style="list-style-type: none"> • Selection • Loops • Nested Loops • Variables • Variable as Placeholder 	<p>Animation project based on cyberbullying –</p> <p>Purple Mash</p> <p>2Animate</p> <p>iMovie</p> <p>Islington SoW</p>	<p>KS2 computing program of study – simulation of search-engine indexing using typical classroom objects – then ranking results using a spreadsheet. Sheets (Google Classroom / 2Calculate</p>	<p>Key Safety Topic / Recap Google CllsRm file Management Skills</p>	<p>Safer / Effective Searching using Kidzsearch,,JuniorS afeSearch</p> <p>Word Processing (Google Docs) – PurpleMash Unit 5.8 (Incorporate Word Processing Skills not covered last year.)</p>	<p>Purple Mash Unit 5.5</p> <p>2DIY Game Creator – Designing, Creating and Marketing own 2D maze game.</p>