



# Holy Family Catholic Primary School – Computing Topic Overviews



<b>EYFS – Nursery and Reception</b>					
<b><u>Mandatory Skills</u></b>	<b><u>Mandatory Skills</u></b>	<b>Digital Literacy</b>	<b>Digital Literacy</b>	<b>Information Technology</b>	<b>Computer Science</b>
<b>Nursery</b>					
I can do the basics with technology. I can go online. I can use a camera.	I can do the basics with technology. I can go online. I can use a camera.	I can discuss the use of technology in the world around me.	I can discuss the use of technology in the world around me.	I can select and use technology for particular purposes.	I can give instructions to a programmable toy.



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<b>EYFS – Nursery and Reception</b>					
<b><u>My Online Life</u> (Digital Literacy)</b>	<b><u>Talking Technology</u> (Information Technology)</b>	<b><u>Nursery Rhyme Coding</u> (Computer Science)</b>	<b><u>Technology &amp; Me</u> (Digital Literacy)</b>	<b><u>Animal Safari</u> (Information Technology)</b>	<b><u>Robots</u> (Computer Science)</b>
<b>Reception</b>					
<p>The many different types of media content including; sound, images, books, podcasts /audiobooks and video via the web.</p> <p>How the Internet can be used to communicate with others.</p> <p>Simple online safety rules.</p> <p>Explore how people create online content such as video and websites.</p>	<p>How various devices and apps can be used in the classroom.</p> <p>Independently choose an application for a particular purpose. e.g drawing a picture.</p> <p>Type keywords in a search engine (Google).</p>	<p>Explain a simple algorithm as a list of instructions that solves a problem.</p> <p>Sequence a series of events and explain the importance of sequencing.</p> <p>Control a range of ‘toys’ using remote controls and do this with purpose and direction.</p> <p>Action/reaction: “what do you think will happen?” when using technology or attempting to solve a problem.</p> <p>How to access the web on a classroom device.</p> <p>Type keywords in a search engine (Google).</p>	<p>The many different types of media content including; sound, images, books, podcasts /audiobooks and video via the web.</p> <p>How the Internet can be used to communicate with others.</p> <p>Simple online safety rules.</p> <p>Explore how people create online content such as video and websites.</p>	<p>How various devices and apps can be used in the classroom.</p> <p>Independently choose an application for a particular purpose. e.g drawing a picture.</p> <p>Type keywords in a search engine (Google).</p>	<p>Explain a simple algorithm as a list of instructions that solves a problem.</p> <p>Sequence a series of events and explain the importance of sequencing.</p> <p>Control a range of ‘toys’ using remote controls and do this with purpose and direction.</p> <p>Action/reaction: “what do you think will happen?” when using technology or attempting to solve a problem.</p> <p>How to access the web on a classroom device.</p> <p>Type keywords in a search engine (Google).</p>



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## Cycle A - Key Stage 1 - Years 1 and 2

<b>My Online Life</b> (Digital Literacy)	<b>What is a Computer?</b> (Computer Science)	<b>Making Games</b> (Information Technology)	<b>Modern Tales</b> (Digital Literacy)	<b>Presenting &amp; Typing</b> (Computer Science)	<b>Mini-beasts</b> (Information Technology)
<p>Who can help us online?</p> <p>How should we communicate online?</p> <p>What should we share online?</p> <p>What is online bullying and how should we deal with it?</p> <p>Can you find information online?</p> <p>How should I behave online?</p> <p>What information shouldn't we share online?</p> <p>Who owns the information on the internet?</p>	<p>What is a computer and what are all those extra bits?</p> <p>How well do you know your technology?</p> <p>What's inside technology?</p> <p>What is hardware and what is software?</p> <p>How can we communicate online?</p> <p>What are programs?</p>	<p>What are coding blocks?</p> <p>What is a repeat loop?</p> <p>Can you turn code into an algorithm?</p> <p>Can you create an algorithm and program to solve a problem?</p> <p>Can you create a game with Scratch Jr?</p> <p>Can you code your own game?</p>	<p>Can you find out information about your class mates?</p> <p>What is personal information?</p> <p>What do you do online?</p> <p>What is animation?</p> <p>How can we use animation to tell a story?</p>	<p>What is a presentation? What is technology?</p> <p>How do I get and add images to my presentation?</p> <p>How do I add links to websites?</p> <p>How can we add animation?</p> <p>How can we add video?</p> <p>What is data?</p>	<p>What does "design" mean?</p> <p>What does "data" mean?</p> <p>What does "keyword" mean?</p> <p>What does "research" mean?</p> <p>How do we make a video?</p> <p>What does "illustration" mean?</p>



# Holy Family Catholic Primary School – Computing Topic Overviews



## Cycle A – Lower Key Stage 2 – Years 3 and 4

<b>My Online Life</b> (Digital Literacy)	<b>Endangered Animals</b> (Computer Science)	<b>Rainforests</b> (Information Technology)	<b>Online Detectives</b> (Digital Literacy)	<b>Dancing Robots</b> (Computer Science)	<b>Game Designers</b> (Information Technology)
<p>What is your online identity?</p> <p>How can you build positive online relationships and be a good digital citizen?</p> <p>How can I create a positive online reputation?</p> <p>What is online bullying and what can I do about it?</p> <p>Do you really know how to use the internet?</p> <p>Can technology impact on your health?</p> <p>How secure are you with your online information and accounts?</p> <p>Who owns the information on the internet?</p>	<p>Can you create your own digital book?</p> <p>How can technology help me explore the world?</p> <p>How can I create great illustrations?</p> <p>How do we make a poster?</p> <p>How do we make a film?</p>	<p>What is 360° video and how can we use it to explore faraway places?</p> <p>How do we use Google Earth to explore?</p> <p>How do I combine text, illustrations and music?</p> <p>How can the advanced tools in Google do?</p> <p>Can you make your own quiz game?</p> <p>Have you ever wondered how game and apps on your computer, tablet or phone work?</p>	<p>Can you use the world wide web to authenticate facts?</p> <p>Can you use the world wide web to identify places?</p> <p>Can you use the world wide web to identify a mystery person?</p> <p>Can you search for images on the world wide web?</p> <p>Can you use information within pictures to identify them?</p> <p>Reflect, Evaluate and feedback?</p>	<p>How do games and apps on your computer, tablet or phone work?</p> <p>How can decomposition be used to help with coding?</p> <p>What is an algorithm?</p> <p>What is sequencing?</p> <p>What is debugging?</p> <p>What is visual coding?</p> <p>What is a sprite?</p> <p>What is a repeat command?</p> <p>What is send and receive (broadcast)?</p> <p>How can I improve my game/ coding?</p>	<p>What is a video game?</p> <p>What makes a good video for game?</p> <p>How can you program a computer game?</p> <p>What is a flowchart?</p> <p>Can you create programs in Scratch?</p> <p>Can you add improvements to programs in Scratch?</p>



# Holy Family Catholic Primary School – Computing Topic Overviews



Cycle A – Upper Key Stage 2 - Years 5 and 6					
VR Worlds (Computer Science)	My Online Life (Digital Literacy)	Binary Messages (Information Technology)	Online Safety Dilemmas (Digital Literacy)	Quiz Show Hosts (Computer Science)	Crossy Roads (Information Technology)
<p>What is VR?</p> <p>What is an online account?</p> <p>What are scenes in my VR world?</p> <p>How can we record our script and add our VR world?</p> <p>How do we view our VR world?</p> <p>Reflect, feedback and improve?</p>	<p>How does the internet and media shape our views?</p> <p>How can you be a good Digital Citizen?</p> <p>What does the information online say about us?</p> <p>How would you deal with online bullying?</p> <p>How do you make informed decisions online?</p> <p>Can you trust everything you read online?</p> <p>Can technology impact on your health?</p> <p>How secure are you with your online information and accounts?</p> <p>Who owns the information on the internet?</p>	<p>What is binary? Can you convert binary into decimal numbers?</p> <p>Can you send secret messages using binary?</p> <p>What are Spreadsheet?</p> <p>What can spreadsheets helps us compute data?</p> <p>Can you be a teacher?</p> <p>Can you be the teacher?</p>	<p>Why is it so important we understand how to communicate online?</p> <p>What does all this new online language mean?</p> <p>How do we overcome difficult situations?</p> <p>How can we help make the internet a better place?</p> <p>How do we make a film?</p> <p>Reflect, feedback and improve?</p>	<p>What is a quiz and what makes a good question?</p> <p>Can you create a quiz using an online tool?</p>	<p>What is coding? What is decomposition?</p> <p>What is the key vocabulary you need to know when coding?</p> <p>How are games made using visual coding?</p> <p>What extra elements can we code into our game?</p> <p>How can I share my game?</p>