



# Curriculum Progression Map

## St Mary and St Joseph's RC Primary School

### Year 4 Computing



### Computing Knowledge & Skills

<p><b>Ongoing skills</b></p> <p><b><u>Photography &amp; Digital Art</u></b>  <b><u>Camera and Mark Up, Notes, Seesaw, Keynote, Pic Collage, Sketches Pro, Paper</u></b>          Can enhance digital images and photographs using crop, brightness, contrast and resize          Can manipulate shapes to create digital art          Can draw a series of images and export as an animated GIF</p>	<p><b><u>Presentation Skills</u></b>  <b><u>Skills</u></b>          To explore how font size and style can affect the impact of a text</p>	<p><b><u>Word Processing</u></b>  <b><u>Seesaw, Word, Pages, Google Docs, Keynote, Book Creator, Popplet</u></b>          Can select, edit and manipulate text in different ways          Insert an image into a document          Can format an image          Can use formatting tools to improve the layout          Can use the spellcheck tool          Can insert a simple table          Change the background colour of the page</p>	<p><b><u>Spreadsheets</u></b>  <b><u>2Calculate</u></b>          Can use the number formatting tools to format numbers          Can add a formula to a cell to automatically make a calculation          Can use the timer, random number and spin button tools          Can combine tools to explore number.          Use a series of data in a spreadsheet to create a line graph</p>	<p><b><u>Computer Networks</u></b>          Understand that servers on the Internet are located across the planet          Understand hoe email is sent across the planet          Understand how the internet allows us to collaborate</p>
---	--	--	---	---

### Computing Knowledge & Skills

ICT	Digital Literacy	Computer Science
<p><b><u>Presentations, web design &amp; eBook Creation</u></b>  <b><u>Balloon Stickies+, Google sites, Book Creator, Keynote, Adobe Spark Page, Thinglink</u></b>          Can create an interactive quiz eBook introducing hyperlinks          Can create an eBook with text, images and sound          Can create a presentation using a range of media          Can create a digital timeline/mindmap and include different media (sound &amp; video)</p> <p><b><u>Animation</u></b>  <b><u>Puppetpals, ChatterPix Kids, Animate Anything, I Can Animate, iFunFace, Seesaw, Plotagon, Puppetmaster, Toontastic</u></b>  <b><u>Skills</u></b>          Can explain what is meant by animation          Create a series of linked frames that can be played as a short animation          Control and adjust a time slider to locate different points in a film clip          Insert images to create a simple stop-motion animation short film clip          Make changes to an image using onion skinning,</p>	<p><b><u>Skills</u></b>          Define cyber-bullying          Know how to respond to a hurtful message or comment online          Can access a trusted search engine          Know what plagiarism is          Explain what digital citizenship is          Can explain to others how to stay safe online          Know which information to keep private online          Know that different search terms give different results          Know that different security symbols such as a padlock protect their identity online          Know the meaning of 'phishing' and are aware of the existence of scam websites          Can explain what a digital footprint is and how it relates to identity theft          Know what malware is and what a computer virus is          Know why it is important to balance between being active and digital activities          Can give reasons for limiting screen time</p>	<p><b><u>Skills</u></b>  <b><u>Programming Turtle Logo and Scratch</u></b>          Write procedures using simple algorithms          Change the colour of the pen          Write text using the label command          Draw shapes using setpos or setxy          Fill shapes in different colours          Can write a program which accomplishes a specific goal          Create a program that includes a logical sequence          Debug a program          Can use repetition and selection and the duplicate function</p> <p><b><u>2Code</u></b>          Can use sketching to design a program          Create code that reflects their design          Can create an if/else statement          Can use the repeat command          Can explain what a variable is and use them effectively          Can create a timer          Know what decomposition and abstraction are in computer science</p>

understanding the term

**Video Creation**

**Doink Greenscreen, iMovie, Shadow Puppets, Adobe Spark Video, Videorama, Apple Clips, Explain Everything**

Can add music and sound effects to films

Can add animated titles and transitions

Can add simple subtitles to a video clip

Can use green screen adding animated backgrounds..

**ICT**

Can name the different parts of a desktop computer

Know what the function of the different parts of a computer is

**Augmented Reality & Virtual Reality**

**AR Makr, Thinglink, Keynote, Google Tour Creator, Google Expeditions, EyeJack, Figment AR**

Can create own 360 video

Use the camera to create a 360 image

Can add multiple objects into surroundings through AR to explain a concept

**Sound**

**Seesaw, Voice memos, Garageband, Anchor, Keezy**

Edit sounds for a purpose

Create a simple four chord song following the correct rhythm

Can record a radio broadcast or audiobook

**Vocabulary**

Control, editing, Email, Graphics, Repetition, retrieve, Selection, Sequence, simulate, technology

See NC list for words in teirs