



**Ravenscote Junior School**  
**Long Term Plan – Computing**  
**2023-2024**



	Autumn	Spring	Summer
<b>Year 3</b>	<b>Discovering the Desktop</b> Hardware and software of desktop – also google classroom.  <b>iConnect</b> The internet and world wide web.	<b>iProgram</b> Programming animations with Scratch.  <b>iData</b> Exploring databases to find information and add records.	<b>iSimulate</b> Exploring computer simulations, investigating options and testing predictions.  <b>iPodcast</b> Creating and editing audio podcasts.
<b>Year 4</b>	<b>iProgram Unit 1</b> Creating programs with Scratch.  <b>iData</b> Exploring data representation with databases.	<b>iAlgorithm</b> Reinforcing the concept of algorithms being a set of instructions.  <b>iAnimate</b> Combining narrative and artwork to create computer animations.	<b>iProgram Unit 2</b> Investigate angles and navigate mazes.  <b>iDo We Do</b> Programming and robotics with Scratch & LEGO™ WeDo.
<b>Year 5</b>	<b>iProgram Unit 1</b> Programming animations with Scratch.  <b>iDraw</b> Vector drawings: Exploring how images are made from shapes and lines.	<b>iCrypto</b> Cryptography: exploring data encryption.  <b>iWeb</b> Exploring web design and construction.	<b>iProgram Unit 2</b> Programming with Kodu.  <b>iModel</b> Exploring 3D digital modelling Designing and constructing 3D models
<b>Year 6</b>	<b>iProgram Unit 1</b> Developing programs with Scratch.  <b>iNetwork</b> Networks, data representation, HTML/CSS.	<b>iApp Unit 1</b> Designing and developing apps with Bitsbox.  <b>iData</b> Introducing spreadsheets.	<b>iApp Unit 2</b> Designing and developing apps with App Inventor.  <b>iProgram Unit 2</b> Designing and developing 3D animations.

Online safety is visited in every lesson, specifically focusing on the 4 C's of online safety – Content, Commerce, Contact and Conduct, thereby enabling the children to identify the potential risks.

Online safety lessons are taught every term in each year group.