



Ravenscote Junior School Long Term Plan – Computing



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

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.