Streethay Primary School

Computing Unit Overview

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	**iSafe** This unit uses Think U Know's Jessie & Friends curriculum and resources. It is provided here free for schools to optionally cover eSafety discretely. The unit explores key aspects of eSafety to support pupils with safe technology use and online behaviour.	**iAlgorithm** This unit introduces the concept of algorithms being a set of instructions that can be followed to complete a task. Activities are mainly unplugged to support children's understanding.	**iModel** In this unit pupils explore how computer models work and understand they can be used to represent real or imaginary environments, situations and scenarios. They will begin to understand the differences between representations and their original counterparts, as well as their uses and limitations	**iDraw** In this unit, children explore and develop skills using digital tools to create and edit graphical art.	**iProgram - 1** This unit introduces the children to algorithms and simple programming. It uses the context of programming physical and virtual toys to perform specific actions. It develops understanding that computers are controlled by sequences of instructions and that computers need more precise instructions than humans do.	**iWrite** This unit introduces basic word processing. The children learn how to enter and print text, save and retrieve work.
2	**iSafe** This unit uses Think U Know's resources. The unit helps children understand the risks associated with sharing personal information online and how to make informed choices.	**iProgram - 1** This unit introduces the children to a visual programming language: Scratch. Using the context of art and drawing, the children will be engaged in creatively developing simple animations.	**iSearch** In this unit the children will learn how to use the internet to find out answers to questions relating to space and the solar system. They will also learn the importance of verifying the accuracy of information given on the internet and how to check multiple sources before answering questions.	**iAnimate** In this unit, the children explore stop frame animation through story telling. The children will explore creating narratives and combining them with images to make their own short animated scenes.	**iPub** In this unit the children research the remarkable advances computing and technology has made throughout time. They present their findings and develop digital literacy skills by producing multi-media interactive eBooks.	**iBlog** In this unit the children will learn that blogs are an online conversation with an audience. They will develop both their writing and digital literacy skills by learning how to craft posts and address questions.
3	**iSafe** The unit helps children understand the risks associated with sharing personal information online and how to make informed choices.	**iProgram** Developing computational thinking and programming animations with Scratch	**iSimulate** Exploring computer simulations, investigating options and testing predictions	**iNetwork** Exploring networks and learning how digital devices are connected together to form them	**iConnect** Learning about the Internet and World Wide Web	**iPodcast** Creating and editing audio podcasts
4	**iSafe** The unit helps children understand the risks associated with sharing personal information online and how to make informed choices.	**iProgram - 1** Developing computational thinking and creating programs with Scratch	**iAnimate** Combining narrative and artwork to create computer animations	**iMail** Sending and receiving email safely and responsibly	**iProgram - 2** Developing computational thinking and programming skills to investigate angles and navigate mazes	**iData** Exploring data representation with databases
5	**iSafe** The unit helps children understand the risks associated with sharing personal information online and how to make informed choices.	**iProgram - 1** Developing computational thinking and programming animations with Scratch	**iDraw** Vector drawing Exploring how images are made from shapes and lines	**iCrypto** Cryptography Exploring data encryption	**iWeb** Exploring web design and construction	**iModel** Exploring 3D digital modelling Designing and constructing 3D models
6	**iSafe** The unit helps children understand the risks associated with sharing personal information online and how to make informed choices.	**iProgram - 1** Designing and developing programs with Scratch	**iNetwork** Networks, data representation, HTML/CSS	**iApp - 1** Designing and developing apps with Bitsbox	**iProgram - 2** Designing and developing 3D animations	**iModel** Introducing 3d computer modelling