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| **Year 1** | **Computing Unit** | **Computing Focus:** | **Programmes of Study** | **Suggested Software** |
| **Autumn 1**  **Dinosaur Planet** | 1.2 I AM A TREASURE HUNTER In this unit, the children will instruct a programmable toy around a map to find *buried treasure*. They will start by inputting instructions one at a time and progress to programming short sequences of instructions. There are links with maths through the use of directional language. | * Control * Following instructions | * understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions * create and debug simple programs * use logical reasoning to predict the behaviour of simple programs | * Bee-Bot App * Daisy the Dino |
| **Autumn 2 Superheroes** | 1.4 I AM A DATA COLLECTOR This unit give the children chance to collect data from real life. Children could collect data about *much they exercise each day, how many portions of fruit and veg they eat or how many times they read* and use a graphing program to show the results. Children will then use the data to decide how active they are, how healthily they eat, if they read often enough etc. The unit links to data handling in maths, but also the PSHE with an evaluation of themselves. | * Data handling * Charts and graphs | * use technology purposefully to create, organise, store, manipulate and retrieve digital content * recognise common uses of information technology beyond school | * Easy chart HD App * iGraph it Lite App   Any simple graphing tool (Active Inspire / Gordons) |
| **Spring 1**  **Moon Zoom** | 1.3 I AM A STORYTELLER In this unit, children create a talking book or animation that they can share with others. Using hardware like talking tins and iPods, children will record themselves retelling part of or all of a story. This will then be compiled as a talking book or animation and posted on the website. There are obvious links to literacy but you should also think about how it can support the children’s learning in topic. | Sound recording | * use technology purposefully to create, organise, store, manipulate and retrieve digital content | * Tellagami * Puppet Edu / Puppet Pals * iRec * PicPlayPost * iPod recording / Talking tins |
| **Spring 2**  **Splendid Skies** | 1.5 I AM AN INSTRUCTOR In this unit children will make a short video on how to make something*. This could be making a picture, a sandwich or a model.* Pupils will need to learn how to use video equipment (iPods/Pads are included) and what makes a successful video. Then pupils will write a set of instructions and video giving the instructions. Jobs within the project can be shared out to produce the end product. This links to instructions in literacy but the instructions could quite easily be about solving a mathematical problem. | * Recording * Planning * Presenting | * use technology purposefully to create, organise, store, manipulate and retrieve digital content * recognise common uses of information technology beyond school * Express ideas * Record a short speech | * Ipod/IPad video * Video Scribe * Explain Everything * iMovie |
| **Summer 1**  **Bright Light, Big City** | 1.6 I AM A SIMULATOR In this unit pupils will use a simulator to experience real life events. Children should understand that simulators can be used to test something in a virtual world before it is tested in real life. *This could be the learning about the conditions for the growth of a plant, throwing a paper aeroplane or driving a car.* There are good links to science through this unit. | Simulations | * use logical reasoning to predict the behaviour of simple programs | * <http://www.learn4good.com/games/simulation.htm> * BBC science * Any internet simulator |
| **Summer 2**  **Rio de Vida** | I AM CELEBRATING In this unit pupils will learn how to combine text and graphics to produce a celebration e-card. Children will need to practise typing and then editing the text. Then starting to import images and positioning them in a desired place. There are links with RE and PSHE. | * Research * Word processing * graphics | * use technology purposefully to create, organise, store, manipulate and retrieve digital content * recognise common uses of information technology beyond school | * Pic Collage * Pages / Docs * Book Creator * Photo Card * Keynote |