**Computing Curriculum Y1-Y6**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **YEAR GROUP** | **T1**  **ALGORITHMS / COMPUTER SCIENCE** | **T2**  **PHYSICAL PROGRAMMING** | **T3**  **E-SAFETY WEEK** | **T3**  **INTERNET & ONLINE TECHNOLOGY** | **T4**  **DATA HANDLING** | **T5**  **MULTIMEDIA** | **T6**  **VISUAL PROGRAMMING** |
| 1 | **Technology Around Us**  Recognise common uses of information technology beyond school and make use of a range of technology and software available in school | **Programming - Bee-bot Tinkering**  Barefoot Computing Projects | **E-Safety through stories**  Digiduck's Big Decision and Smartie the Penguin | **Navigating the Internet** | **Presenting and sorting data -** Pictograms and bar charts, sorting activities | **Working with images and sound**  Art package  Music software / audio recording  We Are Sharing – Switched on Computing | **Modelling & Simulation**  Physical to Abstract ideas  [**https://slp.somerset.gov.uk/cypd/elim/somersetict/Site%20Pages/Progressions%20-%20Modelling%20and%20Simulation.aspx**](https://slp.somerset.gov.uk/cypd/elim/somersetict/Site%20Pages/Progressions%20-%20Modelling%20and%20Simulation.aspx) |
| 2 | **Algorithms**  Barefoot Computing Projects | **Programming - Routes**  Bee-bot / Human robots | **Lee & Kim's Big Adventure** | **Internet research and safe searching** | **Capturing and presenting data -**digital camera, video, microphone, data logger | **Combining text, images and sound** - Story telling  We Are Cooking - Switched on Computing | **Scratch Junior Tinkering**  Barefoot Computing Projects |
| 3 | **Computational Thinking - Exploring simulations** | **Programming – Robots**  LightBot & Probots | **Hector's World** | **Understanding the Internet and evaluating digital content** | **Data Handling - An introduction to databases**  [**http://csunplugged.org/databases**](http://csunplugged.org/databases) | **Animation / Movie Maker** | **Scratch animation**  We are Programmers - Switched on Computing |
| 4 | **Computer Science unplugged / Computing Theory**  [**http://www.simonhaughton.co.uk/computing-theory-for-7-to-11-year-olds.html**](http://www.simonhaughton.co.uk/computing-theory-for-7-to-11-year-olds.html) | **Programming – Shapes**  Probots / Scratch 2D Shapes and crystal flowers | **Captain Kara and the Smart Crew** | **Communicating online**  **Blogging / E-Mail** | **Analyse & Present Data – Class Survey**  Introduce spreadsheets and simple formula | **Powerpoint with hyperlinks**  We Are Botanists / Interactive story - Switched on Computing | **Scratch Irish Computer Society Projects**  [**http://scratch.ie/primary/resources**](http://scratch.ie/primary/resources) |
| 5 | **Computer Science unplugged -** Data: Representing Information (Not Databases)  [**http://csunplugged.org/activities**](http://csunplugged.org/activities) | **Flowol**  Flowol – Zebra Crossing and traffic lights | **Kids SMART**  [**http://www.kidsmart.org.uk/**](http://www.kidsmart.org.uk/)  CEOP Jigsaw - Zip It, Block It, Flag It slogan  <http://www.simonhaughton.co.uk/2012/05/year-5-e-safety-lesson-1-2012.html> | **How the Internet Works**  <http://www.code-it.co.uk/year5/index.htm>  <http://hackasaurus.org/en-US/goggles/>  <http://internet-map.net/> | **Taking Spreadsheets Further**  **https://allteach.co.uk/scheme-of-work/free-sample.html** | **We Are Film Makers** Switched on computing Year 5 -Movie Maker 2.6 and Word | **Scratch –Maths Quiz and Math Activities**  [**http://code-it.co.uk/scratch/scratchquiz.html**](http://code-it.co.uk/scratch/scratchquiz.html)  [**http://www.code-it.co.uk/scratch/scratchplan.html**](http://www.code-it.co.uk/scratch/scratchplan.html) |
| 6 | **Computer Science Unplugged -** Putting Computers to Work: Algorithms  **http://csunplugged.org/activities** | **Flowol**  Lighthouse and Bridge LightsEXT – Carpark  FlowGo (STEM Project) | **ThinkUKnow Cybercafe - Cyberbullying** | **Computer Networks**  **Understand how computer networks can provide multiple services including the Web** <https://sites.google.com/site/primaryictitt/home/key-stage-2/multiple-services>  HTML introduction  Thimble HTML editor  Coffee Cup HTML editor <http://www.code-it.co.uk/netintsearch.html> | **Databases**  **WHODUNNIT?**  **Analyse a database to solve crimes**  <http://primary.naace.co.uk/activities/#Whodunnit>? | **Graphic Design using Google Sketchup**  <http://bwjunior.hants.sch.uk/curriculum/documents/ict-howto-sketchup.pdf>  <http://www.simonhaughton.co.uk/2011/11/super-sketchup.html> | **Scratch – Computer Games (Simple Maze or Pong Game)**  [**http://www.code-it.co.uk/scratch/crabmaze.html**](http://www.code-it.co.uk/scratch/crabmaze.html)  [**http://www.simonhaughton.co.uk/2013/02/scratch-20-resources-and-planning.html**](http://www.simonhaughton.co.uk/2013/02/scratch-20-resources-and-planning.html)  **We Are Game Designers**  Switched on computing Year 6 – Kodu and Word |