|  |
| --- |
| Computing & Coding  |
| **Programme of Study**  | * understand what algorithms are; how they are implemented as programs on digital devices
* understand that programs execute by following precise and unambiguous instructions
* create and debug simple programs
* use logical reasoning to predict the behaviour of simple programs
 |
| **Skills & Objectives** | 1. Can they plan, articulate and enter a sequence of instructions to achieve an algorithm, with a robot specifying distance and turn?
2. Can they predict what will happen for a sequence of instructions in a program and test results?
3. Can they use the word debug to correct any mistakes when programming onscreen or a floor robot?
4. Can they explore and evaluate outcomes when giving instructions in a simple program?
 |
| **Key Words**  | **ALGORITHM RUN****INSTRUCTIONS PROGRAM****PROGRAM** **FOLLOW****PRECISE** **EXECUTE****REPEAT****DEBUG** |
| Digital Creation  |
| **Programme of Study**  | Use technology purposefully to create, organise, store, manipulate and retrieve digital content |
| **Skills & Objectives** | 1. Can they create linear presentations and documents for different purposes using a combination of text, graphics, images, recorded sound and sound from a library?
2. Can they save, retrieve and amend their work?
3. Can they use their own edited images in a presentation or document?
4. Can they begin to understand that images, sounds and text can be subject to copyright?
 |
| **Key Words**  | **Audience Edit Save Effects****Purpose Layout Fill****Colour Font Resize****Sound Image Crop****Manipulate Camera Brightness** |

|  |
| --- |
| E-Safety  |
| **Programme of Study**  | Use technology safely and respectfully, keeping personal information private; know where to go for help and support when they have concerns about content or contact on the internet or other online technologies |
| **Skills & Objectives** | 1. Do I understand that the information I put online leaves a digital footprint?
2. Can I use keywords in an online search to find out about a topic?
3. Can I recognise whether a website is appropriate for children?
4. Can I rate and review informative websites
5. Can I identify kind and unkind behaviour online?
6. Can I apply my knowledge of safe and sensible online activities to different situations?
 |
| **Key Works**  | **ESAFE****REPORTING****TELL REPORT****FILTER****SECURE****PASSWORD****PROTECTION CYBER-BULLYING DANGER RELIABLE** |

|  |
| --- |
| Working with Data  |
| **Programme of Study**  | use technology purposefully to create, organise, store, manipulate and retrieve digital content |
| **Skills & Objectives** | 1. Can they develop more advanced classification skills by carrying out simple sorting activities (probably away from the computer)?
2. Can they use graphing software to change a graph type (e.g. pictogram to bar chart)?
3. Can they interpret graphs, discuss information contained and answer simple questions?
4. Can they explore an online database? e.g. <http://www.kidsbiology.com/animals-for-children.php>
 |
| **Key Words**  | **DATA PICTOGRAM FIELD****INFORMATION GRAPH RELIABILITY****ACCCURACY SORT ORGANISE****BARCHART LABELS AXIS** |

|  |
| --- |
| Technology in Our Lives  |
| **Programme of Study**  |  recognise common uses of information technology beyond school |
| **Skills**  | 1. Can they recognise and describe commonly used technologies?
2. Can they discuss how things were done before the invention of a range of common technologies e.g. communication technology?
3. Can they recognise the difference and similarities between desktop computers/laptops and mobile technologies?
 |
| **Key Words**  | **Sensors** **Information****Technology****Purpose****Computer****Processor****Entertainment****Communication****Mobile** |

|  |
| --- |
| Basic Skills & the Internet |
| **Programme of Study**  | Develop basic skills in preparation for the computing curriculum  |
| **Skills**  | 1. Can they cut/copy and paste?
2. Can they understanding the network system? Saving (SAVE) and work My Documents (:Drive) and opening work in the shared drive (W:Drive)
3. Do they know the difference between SAVE and SAVE AS?
4. Can they open saved work?
5. Can they view open windows: minimise, maximise, close, dual screen view?
6. Can they upload files from external device?
7. Can they go on the Internet and navigate around a page using a scroll bar?
8. Can they select hyperlinks on a page or document to navigate to a different page?
9. Can they use the iPad correctly for a range of tasks?
10. Can they use the mouse and keyboard to play on online games?
 |