|  |  |
| --- | --- |
| 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? |