**Computing**

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|  | **Computer Science** | | **Information Technology** | **Digital Literacy**  **(Every half term)** | |  | | **Environment** |
| **EYFS** | Children select and use technology for particular purposes. | | Recognise the different types of technology that are used both at home and at school. | Joins in with class discussion when talking about internet safety. | |  | |  |
| Suggested tools | Beebot exploration  Torches  Laptops  Ipads | | Tapestry (parental involvement – observations of children using technology at home). | Every half term Internet Safety lessons (Smartie the Penguin) | |  | |
| **Vocabulary** | * Technology * Beebot * Laptop * Computer * Staying safe online * Positional language; Forwards, backwards, turn | | | | | | | |
| **Non-Negotiable** |  | | | | | | | |
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| **Year 1** | Understand what algorithms are; control simple every day devices to make them produce different outcomes. | | Use a range of simple tools in a paint package/image manipulation software to create/modify a picture. | Able to discuss staying safe online, identify where to go for help and support. | |  | |  |
| Suggested tools | Cubettos and pre made maps | | Laptops – Paint  Ipads | Every half term Internet Safety lessons (internet safety story) – National Online Safety Website Lesson Plans. | |
| **Vocabulary** | * Algorithm * Cubetto * Laptop * Ipad * Positional language; left, right, clockwise, anticlockwise, straight, forwards, backwards | | | | | | | |
| **Non Negotiables** |  | | | | | | | |
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| **Year 2** | Understand what algorithms are; Control a device, on and off screen, making predictions about the effect their programming will have. | Use a range of simple tools in a paint package/image manipulation software to create/modify a picture to communicate an idea. | | Able to discuss staying safe online, identify where to go for help and support. |  | |  | |
| Suggested tools | Cubettos and own maps  Ball | Laptops – paint programme, word document.  Ipads | | Every half term Internet Safety (Internet safety story) – National Online Safety Website Lesson Plans. |  | |  | |
| **Year 2 Second half** |  | Create a simple animation to tell a story. | |  |  | |  | |
| Suggested tools |  | Ipads – (look into App) | |  |  | |  | |
| **Vocabulary** | * Algorithms * Device * Programme * App * Ipads * Laptops * Internet safety * Animation | | | | | | | |
| **Non negotiables** |  | | | | | | | |