Year 1 Computing End Points

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|  | **e-Safety** | **Programming** | **Handling Data** | **Multimedia** | **Technology in our Lives** |
| **Year 1** | * I can keep my password private. * I can tell you what personal information is. * I can tell an adult when I see something unexpected or worrying online. * I can talk about why it’s important to be kind and polite. * I can recognise an age appropriate website. * I can agree and follow sensible e-Safety rules. | * I can give instructions to my friend and follow their instructions to move around. * I can describe what happens when I press buttons on a robot. * I can press the buttons in the correct order to make my robot do what I want. * I can describe what actions I will need to do to make something happen and begin to use the word algorithm. * I can begin to predict what will happen for a short sequence of instructions. * I can begin to use software/apps to create movement and patterns on a screen. * I can use the word debug when I correct mistakes when I program. | * I can talk about the different ways in which information can be shown. * I can use technology to collect information, including photos, video and sound. * I can sort different kinds of information and present it to others. * I can add information to a pictograph and talk to you about what I have found out. | * I can be creative with different technology tools. * I can use technology to create and present my ideas. * I can use the keyboard or a word bank on my device to enter text. * I can save information in a special place and retrieve it again. | * I can recognise the ways we use technology in our classroom. * I can recognise ways that technology is used in my home and community. * I can use links to websites to find information. * I can begin to identify some of the benefits of using technology. |

Year 2 Computing – End Points

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|  | **e-Safety** | **Programming** | **Handling Data** | **Multimedia** | **Technology in our Lives** |
| **Year 2** | * I can explain why I need to keep my password and personal information private. * I can describe the things that happen online that I must tell an adult about. * I can talk about why I should go online for a short amount of time. * I can talk about why it is important to be kind and polite online and in real life. * I know that not everyone is who they say they are on the Internet. | * I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions. * I can tell you the order I need to do things to make something happen and talk about this as an algorithm. * I can program a robot or software to do a particular task. * I can look at my friend’s program and tell you what will happen. * I can use programming software to make objects move. * I can watch a program execute and spot where it goes wrong so that I can debug it. | * I talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder. * I can make and save a chart or graph using the data I collect. * I can talk about the data that is shown in my chart or graph. * I am starting to understand a branching database. * I can tell you what kind of information I could use to help me investigate a question. | * I can use technology to organise and present my ideas in different ways. * I can use the keyboard on my device to add, delete and space text for others to read. * I can tell you about an online tool that will help me to share my ideas with other people. * I can save and open files on the device I use. | * I can tell you why I use technology in the classroom. * I can tell you why I use technology in my home and community. * I am starting to understand that other people have created the information I use. * I can identify benefits of using technology including finding information, creating and communicating. * I can talk about the differences between the Internet and things in the physical world. |

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|  | **e-Safety** | **Programming** | **Handling Data** | **Multimedia** | **Technology in our Lives** |
| **Year 3** | * I can talk about what makes a secure password and why they are important. * I can protect my personal information when I do different things online. * I can use the safety features of websites as well as reporting concerns to an adult. * I can recognise websites and games appropriate for my age. * I can make good choices about how long I spend online. * I ask an adult before downloading files and games from the Internet. * I can post positive comments online. | * I can break an open-ended problem up into smaller parts.   Year 3 End Points   * I can put programming commands into a sequence to achieve a specific outcome. * I keep testing my program and can recognise when I need to debug it. * I can use repeat commands. * I can describe the algorithm I will need for a simple task. * I can detect a problem in an algorithm which could result in unsuccessful programming. | * I can talk about the different ways data can be organised. * I can search a ready-made database to answer questions. * I can collect data help me answer a question. * I can add to a database. * I can make a branching database. * I can use a data logger to monitor changes and can talk about the information collected. | * I can create different effects with different technology tools. * I can combine a mixture of text, graphics and sound to share my ideas and learning. * I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. * I can evaluate my work and improve its effectiveness. * I can use an appropriate tool to share my work online. | * I can save and retrieve work on the Internet, the school network or my own device. * I can talk about the parts of a computer. * I can tell you ways to communicate with others online. * I can describe the World Wide Web as the part of the Internet that contains websites. * I can use search tools to find and use an appropriate website. * I think about whether I can use images that I find online in my own work. |

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|  | **e-Safety** | **Programming**  Year 4 End Points | **Handling Data** | **Multimedia** | **Technology in our Lives** |
| **Year 4** | * I choose a secure password and appropriate screen name when I am using a website. * I can talk about the ways I can protect myself and my friends from harm online. * I use the safety features of websites as well as reporting concerns to an adult. * I know that anything I share online can be seen by others. * I choose websites, apps and games that are appropriate for my age. * I can help my friends make good choices about the time they spend online. * I can talk about why I need to ask a trusted adult before downloading files and games from the Internet. * I comment positively and respectfully online and through text messages. | * I can use logical thinking to solve an open-ended problem by breaking it up into smaller parts. * I can use an efficient procedure to simplify a program. * I can use a sensor to detect a change which can select an action within my program. * I know that I need to keep testing my program while I am putting it together. * I can use a variety of tools to create a program. * I can recognise an error in a program and debug it. * I recognise that an algorithm will help me to sequence more complex programs. * I recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and Technology. | * I can organise data in different ways. * I can collect data and identify where it could be inaccurate. * I can plan, create and search a database to answer questions. * I can choose the best way to present data to my friends. * I can use a data logger to record and share my readings with my friends. | * I can use photos, video and sound to create an atmosphere when presenting to different audiences. * I am confident to explore new media to extend what I can achieve. * I can change the appearance of text to increase its effectiveness. * I can create, modify and present documents for a particular purpose. * I can use a keyboard confidently and make use of a spellchecker to write and review my work. * I can use an appropriate tool to share my work and collaborate online. * I can give constructive feedback to my friends to help them improve their work and refine my own work. | * I can tell you whether a resource I am using is on the Internet, the school network or my own device. * I can identify key words to use when searching safely on the World Wide Web. * I think about the reliability of information I read on the World Wide Web. * I can tell you how to check who owns photos, text and clipart. * I can create a hyperlink to a resource on the World Wide Web. * I can recognise that websites use different methods to advertise products. |
|  | e-Safety | Programming  Year 5 End Points | Handling Data | Multimedia | Technology in our Lives |
| **Year 5** | * I can choose a secure password and appropriate screen name. * I protect my password and other personal information. * I can explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult. * I know that anything I post online can be seen, used and may affect others. * I can talk about the dangers of spending too long online or playing a game. * I can explain the importance of communicating kindly and respectfully. * I can discuss the importance of choosing an age-appropriate website, app or game. * I can explain why I need to protect my computer or device from harm. | * I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program. * I can refine a procedure using repeat commands to improve a program. * I can use a variable to increase programming possibilities. * I can change an input to a program to achieve a different output. * I can use ‘if’ and ‘then’ commands to select an action. * I can talk about how a computer model can provide information about a physical system. * I can use logical reasoning to detect and debug mistakes in a program. * I use logical thinking, imagination and creativity   to extend a program. | * I can use a spreadsheet and database to collect and record data. * I can choose an appropriate tool to help me collect data.. * I can present data in an appropriate way. * I can search a database using different operators to refine my search. * I can talk about mistakes in data and suggest how it could be checked. | * I can use text, photo, sound and video editing tools to refine my work. * I can use the skills I have already developed to create content using unfamiliar technology. * I can select, use and combine the appropriate technology tools to create effects that will have an impact on others. * I can select an appropriate online or offline tool to create and share ideas. * I can review and improve my own work and support others to improve their work. | * I can describe different parts of the Internet. * I can use different online communication tools for different purposes. * I can use a search engine to find appropriate information and check its reliability. * I can recognise and evaluate different types of information I find on the World Wide Web. * I can describe the different parts of a webpage. * I can find out who the information on a webpage belongs to. * I know which resources on the Internet I can download and use. * I can describe the ways in which websites advertise their products to me. |

Year 6 End Points

