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.
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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.
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|  | e-Safety | ProgrammingYear 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.
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Year 6 End Points

