Subject: Whole School Overview

Please note: E-Safety to be revisited and explored throughout the year and some topics may link in with your termly topics more easily

	Autumn Term	Spring Term	Summer Term
R	**E-Safety** To ask an adult when I want to use the Internet. To tell an adult when something worrying or unexpected happens while I am using the Internet. To be kind to my friends. **Technology in our lives** To tell you about technology that is used at home and in school. To operate simple equipment. To use a safe part of the Internet to play and learn.	**Programming** To make a floor robot move. To use simple software to make something happen. To make choices about the buttons and icons I press, touch or click on. **Handling Data** To tell you about different kinds of information such as pictures, video, text and sound.	**Multimedia** To move objects on a screen. To create shapes and text on a screen. To use technology to show my learning. **Revise and consolidate our learning regarding the five main computing areas.**

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

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	what I have found out.	

Exceeding
To create a presentation in a small group and record the narration
To use a teacher prepared photo story to create a slideshow of photos

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Autumn Term	Spring Term	Summer Term
2		
E-Safety	**Programming**	**Multimedia**
To explain why I need to keep my password and personal information private.	To give instructions to my friend (using forward, backward and turn) and physically follow their Instructions.	To use technology to organise and present my ideas in different ways.
To describe the things that happen online that I must tell an adult about.	To tell you the order I need to do things to make something happen and talk about this as an algorithm.	To use the keyboard on my device to add, delete and space text for others to read.
To talk about why I should go online for a short amount of time.	To program a robot or software to do a particular task.	To tell you about an online tool that will help me to share my ideas with other people.
To talk about why it is important to be kind and polite online and in real life.	To look at my friend's program and tell you what will happen.	To save and open files on the device I use
To know that not everyone is who they say they are on the Internet.	To use programming software to make objects move.	**Revise and consolidate our learning regarding the five main computing areas.**
Technology in our lives	To debug and solve problems within programs.	
To tell you why I use technology in the classroom.	**Handling Data**	
To tell you why I use technology in my home and community.	To talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder.	
To starting to understand that other people have created the information I use.	To make and save a chart or graph using the data I collect.	
To identify benefits of using technology including finding information, creating and communicating.	To talk about the data that is shown in my chart or graph.	
	To starting to understand a branching database.	
	To tell you what kind of information I could use to help me	

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	investigate a question.	

Exceeding

To create a presentation in a small group and record the narration
To record sounds into software and playback
To insert pre-recorded sounds into a presentation
To capture still and moving images

Subject: Whole School Overview

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	Autumn Term	Spring Term	Summer Term
3	**E-Safety** To create different effects with different technology tools. To combine a mixture of text, graphics and sound to share my ideas and learning. To use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. To evaluate my work and improve its effectiveness. To use an appropriate tool to share my work online. **Technology in our lives** To save and retrieve work on the Internet, the school network or my own device. To talk about the parts of a computer. To tell you ways to communicate with others online. To describe the World Wide Web as the part of the Internet that contains websites. To use search tools to find and use an appropriate website. To think about whether I can use images that I find online in my own work.	**Programming** To break an open-ended problem up into smaller parts. To put programming commands into a sequence to achieve a specific outcome. To keep testing my program and can recognise when I need to debug it. To use repeat commands. To describe the algorithm I will need for a simple task. To detect a problem in an algorithm which could result in unsuccessful programming. **Handling Data** To talk about the different ways data can be organised. To search a readymade database to answer questions. To collect data help me answer a question. To add to a database. To make a branching database.	**Multimedia** To create different effects with different technology tools. To combine a mixture of text, graphics and sound to share my ideas and learning. To use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. To evaluate my work and improve its effectiveness. To use an appropriate tool to share my work online. **Revise and consolidate our learning regarding the five main computing areas.**

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	To use a data logger to monitor changes and can talk about the information collected.	

Exceeding To search by keyword using a child friendly search engine To bookmark a page in to your favourites To use repeat command in logo to create a pattern

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Autumn Term	Spring Term	Summer Term
4 **E-Safety** To choose a secure password and an appropriate screen name when I am using a website. To talk about the ways I can protect myself and my friends from harm online. To be able to use the safety features of websites as well as reporting concerns to an adult. To know that anything I share online can be seen by others. To choose websites, apps and games that are appropriate for my age. To talk about why I need to ask a trusted adult before downloading files and games from the Internet. **Technology in our lives** To tell you whether a resource I am using is on the Internet, the school network or my own device. To identify key words to use when searching safely on the World Wide Web. To think about the reliability of information I read on the	**Programming** To use logical thinking to solve an open-ended problem by breaking it up into smaller parts. To use an efficient procedure to simplify a program. To know that I need to keep testing my program while I am putting it together. To use a variety of tools to create a program. To recognise an error in a program and debug it. To recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and Technology. **Handling Data** To organise data in different ways. To collect data and identify where it could be inaccurate. To plan, create and search a database to answer questions. To choose the best way to present data to my friends.	**Multimedia** To use photos, video and sound to create an atmosphere when presenting to different audiences. To be confident to explore new media to extend what I can achieve. To change the appearance of text to increase its effectiveness. To create, modify and present documents for a particular purpose. To use a keyboard confidently and make use of a spellchecker to write and review my work. To use an appropriate tool to share my work and collaborate online. **Revise and consolidate our learning regarding the five main computing areas.**

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World Wide Web. To tell you how to check who owns photos, text and clipart. To create a hyperlink to a resource on the World Wide Web. To recognise that websites use different methods to advertise products.	To use a data logger to record and share my readings with my friends.	

Exceeding

To use photo editing software to crop photographs and add effects
To copy and paste the graph/bar chart and use it in a WP document
To use animation in their presentation

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	Autumn Term	Spring Term	Summer Term
5	**E-Safety** To choose a secure password and screen name. To protect my password and other personal information. To explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult. To know that anything I post online can be seen, used and may affect others. To talk about the dangers of spending too long online or playing a game. To explain the importance of communicating kindly and respectfully. **Technology in our lives** To use different online communication tools for different purposes. To use a search engine to find appropriate information and check its reliability. To recognise and evaluate different types of information I find on the World Wide Web.	**Programming** To decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program. To refine a procedure using repeat commands to improve a program. To use a variable to increase programming possibilities. To change an input to a program to achieve a different output. To talk about how a computer model can provide information about a physical system. To use logical reasoning to detect and debug mistakes in a program. **Handling Data** To use a spreadsheet and database to collect and record data. To choose an appropriate tool to help me collect data.. To present data in an appropriate way. To search a database using different operators to refine my search.	**Multimedia** To use text, photo, sound and video editing tools to refine my work. To use the skills I have already developed to create content using unfamiliar technology. To select, use and combine the appropriate technology tools to create effects that will have an impact on others. To select an appropriate online or offline tool to create and share ideas. To review and improve my own work and support others to improve their work. **Revise and consolidate our learning regarding the five main computing areas.**

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To find out who the information on a webpage belongs to. To know which resources on the Internet I can download and use. To describe the ways in which websites advertise their products to me.	To talk about mistakes in data and suggest how it could be checked.	

Exceeding

To make a multimedia presentation that contains: sound; animation; video and buttons to navigate
To save an image document as a gif or ipeg.file format using the 'save as' command
To make an information poster using graphics skills to good effect

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	Autumn Term	Spring Term	Summer Term
6	**E-Safety** To protect my password and other personal information. To explain the consequences of sharing too much about myself online. To support my friends to protect themselves and make good choices online, including reporting concerns to an adult. To explain the consequences of spending too much time online or on a game. To explain the consequences to myself and others of not communicating kindly and respectfully. To protect my computer or device from harm on the Internet. **Technology in our lives** To describe how information is transported on the Internet. To select an appropriate tool to communicate and collaborate online. To talk about the way search results are selected and ranked. To check the reliability of a website. To tell you about copyright and acknowledge the sources of	**Programming** To explain and program each of the steps in my algorithm. To evaluate the efficiency of my algorithm while I continually test the programming of that algorithm. To recognise when I need to use a variable to achieve a required output. To use a variable and operators to stop a program. To use different inputs (including sensors) to control a device or onscreen action and predict what will happen. To use logical reasoning to detect and correct errors in algorithms and programs. **Handling Data** To plan the process needed to investigate the world around me. To select the most effective tool to collect data for my investigation. To check the data I collect for accuracy and plausibility. To interpret the data I collect.	**Multimedia** To talk about audience, atmosphere and structure when planning a particular outcome. To confidently identify the potential of unfamiliar technology to increase my creativity. To combine a range of media, recognising the contribution of each to achieve a particular outcome. To tell you why I select a particular online tool for a specific purpose. To be digitally discerning when evaluating the effectiveness of my own work and the work of others. **Revise and consolidate our learning regarding the five main computing areas.**

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information that I find online. To know that websites can use my data to make money and target their advertising	To present the data I collect in an appropriate way. To use the skills I have developed to interrogate a database.	

Exceeding

To incorporate graphics where appropriate, using the most effective text wrapping formats
To conduct a video chat with more than one person at a time
To compare the information provided on two tabbed websites looking for bias and perspective