



Long Term Plan: 2022 – 2023: Computing



E-Safety Objectives

Year band	Autumn Term		Spring Term		Summer Term	
Reception	Me and My Community <u>Autumn Term Outcomes</u>	People who help us/Autumn <u>Autumn Term Outcomes</u>	Once Upon a Time <u>Spring Term Outcomes</u>	Ready, Steady, Grow <u>Spring Term Outcomes</u>	Animal Safari <u>Summer Term Outcomes</u>	On the Beach <u>Summer Term Outcomes</u>
Year 1	<u>Programming Toys Beebots</u> <ul style="list-style-type: none"> • I can create instructions using pictures. • I can say why it is important to be precise when writing an algorithm. • I can write instructions to program a person like a computer. • I can program a Bee-Bot (or similar programmable toy) to move. • I can debug a Bee-Bot (or similar programmable toy). • I can program a sequence to make a Bee-Bot (or similar programmable toy) move. <p style="color: red;">• To create, name and date my digital creative work.</p>		<u>Computer Painting</u> <ul style="list-style-type: none"> • I can paint with different colours. • I can paint with different brushes. • I can create shapes and fill areas. • I can make changes to improve my work. • I can add text to a painting. • I can use a computer program to make a poster. <p style="color: red;">• To understand how to communicate safely online.</p>		<u>Programming Scratch Junior</u> <ul style="list-style-type: none"> • I can describe and use instructions to program a character. • I can program a character to grow and shrink. • I can use instructions to make characters move at different speeds and distance. • I can use a repeat instruction to make a sequence of instructions run more than once. • I can create programs that play a recorded sound. • I can create programs with a sequence of linked instructions. <p style="color: red;">• To explore how to use email to safely communicate.</p>	



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	<p><u>Computer Skills</u></p> <ul style="list-style-type: none">• I can use a computer mouse. <p>or</p> <ul style="list-style-type: none">• I can use a trackpad.• I can switch on and shutdown a computer.• I can launch an application and manipulate windows.• I can save a file.• I can drag objects.• I can identify and practise my computer skills. <p>• To safely search for images online.</p>	<p><u>Word Processing</u></p> <ul style="list-style-type: none">• I can type on a keyboard.• I can type symbols and save files.• I can edit text.• I can use a keyboard.• I can select and format text.• I can format the font. <p>• To understand what personal information I need to keep safe.</p>	<p><u>Using and Applying</u></p> <ul style="list-style-type: none">• I can demonstrate a range of basic skills to use a computer and its software.• I can type and format text, then save my work.• I can open saved work and edit text.• I can use shapes to create a particular image.• I can use different brush tools to create a particular image.• I can create text and pictures about a shared theme. <p>• To apply my online safety knowledge to help others make good choices online.</p>
Year 2	<p><u>Computer Art</u></p> <ul style="list-style-type: none">• I can create computer art.• I can use a range of tools in a computer program to reproduce a style of art.	<p><u>Using the Internet</u></p> <ul style="list-style-type: none">• I can search the Internet using one word. <p>I can stay safe when using the Internet.</p>	<p><u>Presentation Skills</u></p> <ul style="list-style-type: none">• I can use basic computer skills. I can use folder.• I can organise ideas for a presentation.• I can create a simple presentation with text.



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	<ul style="list-style-type: none">• I can make and edit shapes to create a piece of art.• I can change the shade of a colour for effect.• I can retrieve a file to edit in a computer program.• I can use a range of skills to create a piece of art. <p>• To understand that the information I put online leaves a digital footprint.</p>	<ul style="list-style-type: none">• I can search the Internet to find results suitable for children. I can search for information safely online.• I can follow links to another web page. I can follow links safely online.I can create content for an online blog. I can use a camera to take safe photos to use online.• I can create content for an online blog. I can use an online blog safely and respectfully.• I can post positive comments and responses on a blog. <p>• To recognise whether a website is appropriate for children.</p>	<ul style="list-style-type: none">• I can add and format an image.• I can reorder slides and present a presentation.• I can search and print. <p>• To be able to identify kind and unkind behaviour online.</p>
	<p><u>Preparing for Turtle Logo</u></p> <ul style="list-style-type: none">• I can give and follow an algorithm to turn right or left.• I can give and follow an algorithm to make half and quarter turns.• I can give and follow an algorithm using the commands right 90 and left 90.• I can give, follow and complete an algorithm.• I can use recognised language in an algorithm.• I can create, test and debug an algorithm. <p>• To use keywords in an online search to find out about a topic.</p>	<p><u>Programming Turtle, Logo and Scratch</u></p> <ul style="list-style-type: none">• I can create an algorithm to move or rotate the Turtle.• I can create an algorithm and use the repeat Command.• I can create an algorithm and add sound.• I can create an algorithm and use the repeat and say command.• I can create an algorithm and use the green flag to start.	<p><u>Using and Applying</u></p> <ul style="list-style-type: none">• I can use a specific computer skill to reproduce a style of art.• I can use a specific computer skill to create and compare styles of art.• I can create a presentation including text and images.• I can retrieve, edit and organise a presentation.• I can create precise instructions for a character on a particular theme.• I can create code for a pair of characters involving speech and movement.



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		<ul style="list-style-type: none"> • I can create an algorithm and use the commands to change the backdrop and add sprites. • To rate and review informative websites. 	<ul style="list-style-type: none"> • To apply our knowledge of safe and sensible online activities to different situations.
Year 3	<p><u>Internet Research and Communication</u></p> <ul style="list-style-type: none"> • I can identify how word order affects search results. • I can explain how searches return results. • I can save and share webpages. • I can identify the ways, and investigate how, we communicate online. • I can explain how to stay safe when communicating online. • I can explain why I need to be responsible online. • To know what cyberbullying is and how to address it. 	<p><u>Drawing and Desktop Publishing</u></p> <ul style="list-style-type: none"> • I can draw with different shapes and lines. • I can order and group objects. • I can manipulate shapes and lines. • I can recognise effective layout. • I can combine text and images. • I can lay out objects effectively. • To create strong passwords and understand privacy settings. 	<p><u>Programming Turtle, Logo and Scratch</u></p> <ul style="list-style-type: none"> • I can create and debug an algorithm using the move, rotate and repeat commands. • I can create and debug algorithms using pen up and pen down. • I can create and debug algorithms that draw regular polygons. • To create and debug algorithms that draw shapes. • To create and debug algorithms that draw regular polygons. • To create and debug algorithms to draw patterns. • To explore different ways children can communicate online.
	<p><u>Word Processing</u></p> <ul style="list-style-type: none"> • I can use basic computer skills. • I can change the case of text. • I can align text. • I can use bullets and numbering. • I can use the <ctrl> key. 	<p><u>Presentation Skills</u></p> <ul style="list-style-type: none"> • I can plan a branching story. • I can create slide templates and organise slides with hyperlinks. • I can add theme, transitions and animation to a presentation. 	<p><u>Using and Applying</u></p> <p>I can use and combine appropriate software to design, create and present an electronic presentation.</p>



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	<ul style="list-style-type: none"> • I can insert and format text boxes. • To understand how websites use advertisements to promote products. 	<ul style="list-style-type: none"> • I can use action settings. • I can insert audio and video. • I can evaluate slide layout and make improvements. • To safely send and receive emails. 	<p>To be completed over a series of lesson- big question: Can you create an informative presentation about your school?</p> <ul style="list-style-type: none"> • To use knowledge about online safety to plan a party online.
Year 4	<p><u>Word Processing</u></p> <ul style="list-style-type: none"> • I can format images for a purpose. • I can use formatting tools to create an effective layout. • I can use the spellcheck tool. • I can insert and format a table in a word processing document. • I can change a page layout for a purpose. • I can create hyperlinks within a word document. • I can identify how a message can hurt someone's feelings. • I can say how I should respond to a hurtful message online. 	<p><u>Turtle Logo</u></p> <ul style="list-style-type: none"> • I can create and debug an algorithm to create a procedure. • I can create and debug an algorithm that uses setpos to draw shapes. • I can create and debug an algorithm with different colours. • I can create and debug an algorithm to fill areas with colour. • I can create and debug an algorithm to produce text. • I can create and debug an algorithm to draw arcs. • I understand the term 'plagiarism' and how to avoid it. 	<p><u>Using and Applying</u></p> <p>I can use appropriate software to design, create and present details of a new cartoon character.</p> <p>To be completed over a series of lesson- big question: Can you create your own new cartoon character?</p> <p>Completed over the Summer term.</p> <ul style="list-style-type: none"> • To explain how to be a responsible digital citizen.
	<p><u>Scratch</u></p> <ul style="list-style-type: none"> • I can compare quizzes and decompose a problem into smaller parts. I can write and debug a program. 	<p><u>Animation</u></p> <ul style="list-style-type: none"> • I can describe early forms of animation before computers and how computers have made a Difference. 	<ul style="list-style-type: none"> • To create an online safety superhero character.



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	<ul style="list-style-type: none">• I can write and debug a program. I can use sequence and selection.• I can write and debug a programs which use sequence and repetition. I can work with variables.• I can write and debug a program which uses sequence. I can work with variables.• I can write a program.• I can design, write and debug my own program by selecting appropriate visual block commands to create a sequence. <p>• I can use a search engine accurately.</p>	<ul style="list-style-type: none">• I can create a short computer animation using one or more moving stick figures.• I can create a recorded animation involving a number of moving characters on a background.• I can structure specific timing of animations using a time slider.• I can use a camera to create a short stop motion animation film.• I can analyse and evaluate software. <p>• To create a safe online profile.</p>	
Year 5	<p><u>Controlling Devices</u></p> <ul style="list-style-type: none">• I can draw and interpret a flowchart with the correct symbols.• I can create and edit a flowchart to control a simulated device.• I can control multiple outputs at the same time.• I can use a decision symbol based on the status of an input.• I can create a flowchart program containing a Subroutine.• I can design, write and debug my own flowchart program for a given task. <p>• To identify spam emails and what to do with them.</p>	<p><u>3D Modelling</u></p> <ul style="list-style-type: none">• I can draw 3D shapes.• I can add detail to 3D drawings.• I can add detail to 3D drawings.• I can add and manipulate 3D models.• I can create a complex 3D model.• I can create a 3D model of my own design. <p>• To create strong passwords.</p>	<p><u>Scratch</u></p> <ul style="list-style-type: none">• I can design and program a character game.• I can design an original character or backdrop for a game.• I can add features or effects to enhance a game.• I can create an original animated game with a specific goal.• I can program costume changes for a sprite.• I can add point-scoring and levels to game code. <p>• To apply online safety rules to real-life scenarios.</p>



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	<ul style="list-style-type: none">• To write citations for the websites I use for research.	<p><u>Using and Applying</u></p> <p>I can research and design a new bedroom using appropriate software to create and present the plans.</p> <p>To be completed over a series of lesson- big question: Can you design the ultimate new bedroom for a 10-year-old?</p> <ul style="list-style-type: none">• To recognise when, why and how photographs we see online may have been edited.	<p><u>Radio Stations</u></p> <ul style="list-style-type: none">• I can use software to create my own sounds by recording, editing and playing.• I can combine audio effects to create an original radio jingle.• I can research and plan digital content for a radio podcast.• I can use software to create and present digital content for a radio podcast.• I can design and record a persuasive radio advert for a product or service.• I can present and evaluate audio content. <ul style="list-style-type: none">• To apply online safety rules to real-life scenarios.
Year 6	<p><u>Programming- Kodu</u></p> <ul style="list-style-type: none">• I can investigate and evaluate the features of programming software.• I can program Kodu using 'When' and 'Do' Instructions.• I can use tools and add features to create an original landscape in Kodu.• I can analyse and deconstruct code to work out its purpose.• I can program a character to be controlled around a custom track to reach a goal.• I can program a character to follow an automatic path.	<p><u>Spreadsheets</u></p> <ul style="list-style-type: none">• I can enter data and formulae into a spreadsheet.• I can order and present data based on calculations.• I can add, edit and calculate data.• I can use a spreadsheet to solve problems.• I can plan and calculate a spending budget.• I can design a spreadsheet for a specific purpose.	<p><u>Film Making</u></p> <ul style="list-style-type: none">• I can use appropriate software and other tools effectively to write a film script.• I can locate and check appropriate digital content, and provide accurate crediting of sources.• I can use digital recording devices to film and import into video editing software.• I can plan, conduct and import video interviews as part of a short film.• I can use video editing software to create a short film.• I can use video editing software to turn a film project into a finished movie and present it.



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Scratch

- I can create appropriate animations for a story scene.
- I can structure and control the timing of events.
- I can control when objects need to be visible.
- I can sequence events to create a story narrative.
- I can add voice sounds to enhance an animated story.
- I can add interactive user features to a scene or story.
- I can find similarities and differences between in-person and cyberbullying.
- I can identify good strategies to deal with cyberbullying.
- I can identify secure websites by identifying privacy seals of approval.

- I understand the benefits and pitfalls of online relationships.
- I can identify information that I should never share.
- I can identify how the media play a powerful role in shaping ideas about girls and boys.

Using and Applying

I can design a new game, using appropriate software to present information and advertise a product launch.

To be completed over a series of lesson- big question: Can you design and plan the launch of a new game or app?

- I can apply my online safety knowledge to my online activities.
- I can use my knowledge of online safety to create a multiple-choice quiz.