

# Menston Primary School Computing Long-Term Overview

	Y1	Y2	Y3	Y4	Y5	Y6
Autumn 1	<b>Computing Systems and Networks Technology Around Us</b> <ul style="list-style-type: none"> <li>Technology in our classroom</li> <li>Using technology</li> <li>Developing mouse skills</li> <li>Using a computer keyboard</li> <li>Developing keyboard skills</li> <li>Using a computer responsibly</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Self-image and identity</li> </ul>	<b>Computing Systems and Networks IT Around Us</b> <ul style="list-style-type: none"> <li>What is IT?</li> <li>IT in school</li> <li>IT in the world</li> <li>The benefits of IT</li> <li>Using IT safely</li> <li>Using IT in different ways</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Self-image and identity</li> </ul>	<b>Computing Systems and Networks Connecting Computers</b> <ul style="list-style-type: none"> <li>How does a digital device work?</li> <li>What parts make up a digital device?</li> <li>How do digital devices help us?</li> <li>How am I connected?</li> <li>How are computers connected?</li> <li>What does our school network look like?</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Online reputation</li> </ul>	<b>Computing Systems and Networks The Internet</b> <ul style="list-style-type: none"> <li>Connecting networks</li> <li>What is the internet made of?</li> <li>Sharing information</li> <li>What is a website?</li> <li>Who owns the web?</li> <li>Can I believe what I read?</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Managing Online Information</li> </ul>	<b>Computing Systems and Networks Sharing Information</b> <ul style="list-style-type: none"> <li>Systems</li> <li>Computer systems and us</li> <li>Searching the web</li> <li>Selecting search results</li> <li>How search results are ranked</li> <li>How are searches influenced?</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Self-Image and Identity</li> </ul>	<b>Computing Systems and Networks Communication</b> <ul style="list-style-type: none"> <li>Internet addresses</li> <li>Data packets</li> <li>Working together</li> <li>Shared working</li> <li>How we communicate</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Health Well-being and Lifestyle</li> </ul>
Autumn 2	<b>Creating Media Digital Painting</b> <ul style="list-style-type: none"> <li>How can we paint using computers?</li> <li>Using shapes and lines</li> <li>Making careful choices</li> <li>Why did I choose that?</li> <li>Painting all by myself</li> <li>Comparing computer art and painting</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Online reputation</li> </ul>	<b>Creating Media Digital Photography</b> <ul style="list-style-type: none"> <li>Taking photographs</li> <li>Landscape or portrait?</li> <li>What makes a good photograph?</li> <li>Lighting</li> <li>Effects</li> <li>Is it real?</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Online Reputation</li> </ul>	<b>Creating Media Animation</b> <ul style="list-style-type: none"> <li>Can a picture move?</li> <li>Frame by frame</li> <li>What's the story?</li> <li>Picture perfect</li> <li>Evaluate and make it great!</li> <li>Lights, camera, action!</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Copyright and ownership</li> </ul>	<b>Creating Media Audio Editing</b> <ul style="list-style-type: none"> <li>Digital recording</li> <li>Recording sounds</li> <li>Creating a podcast</li> <li>Editing digital recordings</li> <li>Combining audio</li> <li>Evaluating podcasts</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Copyright and ownership</li> </ul>	<b>Creating Media Vector Drawing</b> <ul style="list-style-type: none"> <li>The drawing tools</li> <li>Creating images</li> <li>Making effective drawings</li> <li>Layers and objects</li> <li>Manipulating objects</li> <li>Creating a vector drawing</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Online Reputation</li> </ul>	<b>Creating Media Web Page Creation</b> <ul style="list-style-type: none"> <li>What makes a good website?</li> <li>How would you layout your web page?</li> <li>Copyright or copyWRONG?</li> <li>How does it look?</li> <li>Follow the breadcrumbs</li> <li>Think before you link!</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Copyright and Ownership</li> </ul>

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Spring 1		<b>Programming A Moving a Robot</b> <ul style="list-style-type: none"> <li>Buttons</li> <li>Directions</li> <li>Forwards and backwards</li> <li>Four directions</li> <li>Getting there</li> <li>Routes</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Health, wellbeing and lifestyle</li> </ul>	<b>Project Evolve</b> Managing Online Information  <b>Creating Media Making Music</b> <ul style="list-style-type: none"> <li>How music makes us feel</li> <li>Rhythms and patterns</li> <li>How music can be used</li> <li>Notes and tempo</li> <li>Creating digital music</li> <li>Reviewing and editing music</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Managing Online Information</li> </ul>	<b>Creating Media</b>  <b>Desktop Publishing</b> <ul style="list-style-type: none"> <li>Words and pictures</li> <li>Can you edit it?</li> <li>Great template!</li> <li>Can you add content?</li> <li>Lay it out</li> <li>Why desktop publishing?</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Self image and identify</li> <li>Online bullying (Safer Internet Day)</li> <li>Online relationships (Safer Internet Day)</li> </ul>	<b>Creating Media</b> <b>Photo Editing</b> <ul style="list-style-type: none"> <li>Changing digital images</li> <li>Changing the composition of images</li> <li>Changing images for different uses</li> <li>Retouching images</li> <li>Fake images</li> <li>Making and evaluating a publication</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Online reputation</li> </ul>	<b>Creating Media</b> <b>Video Editing</b> <ul style="list-style-type: none"> <li>What is a video?</li> <li>Filming techniques</li> <li>Using a storyboard</li> <li>Planning a video</li> <li><b>Importing and editing video – need help with this one!</b></li> <li>Video evaluation</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Copyright and Ownership</li> <li>Online Bullying (Safer Internet Day)</li> <li>Online Relationships (Safer Internet Day)</li> </ul>	<b>Creating Media</b> <b>3D Modelling</b> <ul style="list-style-type: none"> <li>Introduction to 3D modelling</li> <li>Modifying 3D objects</li> <li>Make your own name badge (3 lessons into 2)</li> <li>Making a desk tidy</li> <li>Planning a 3D model</li> <li>Make your own 3D model</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Privacy and Security</li> </ul>
Spring 2		<b>Data and Information</b> <b>Grouping Data</b> <ul style="list-style-type: none"> <li>Label and match</li> <li>Group and count</li> <li>Describe an object</li> <li>Making different groups</li> <li>Comparing groups</li> <li>Answering questions</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Managing online information</li> </ul>	<b>Project Evolve</b> Privacy and Security  <b>Data and Information</b> <b>Pictograms</b> <ul style="list-style-type: none"> <li>Counting and comparing</li> <li>Enter the data</li> <li>Creating pictograms</li> <li>What is an attribute?</li> <li>Comparing people</li> <li>Presenting information</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Privacy and Security</li> </ul>	<b>Data and Information</b> <b>Branching Databases</b> <ul style="list-style-type: none"> <li>Yes or no questions</li> <li>Making groups</li> <li>Creating a branching database</li> <li>Structuring a branching database</li> <li>Using a branching database</li> <li>Two ways of presenting information</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Privacy and security</li> </ul>	<b>Data and Information</b> <b>Data Logging</b> <ul style="list-style-type: none"> <li>Answering questions</li> <li>Data collection</li> <li>Logging</li> <li>Analysing data</li> <li>Data for answers</li> <li>Answering my questions</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Privacy and security</li> </ul>	<b>Data and Information</b> <b>Flat-File Databases</b> <ul style="list-style-type: none"> <li>Creating a paper-based database</li> <li>Computer databases</li> <li>Using a database</li> <li>Using search tools</li> <li>Databases in real life</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Managing Online Information</li> </ul>	<b>Programming A</b> <b>Variables in Games</b> <ul style="list-style-type: none"> <li>Introducing variables</li> <li>Variables in programming</li> <li>Improving a game</li> <li>Designing a game</li> <li>Design to code</li> <li>Improving and sharing</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Managing online information</li> </ul>

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Summer 1		<b>Creating Media</b> <b>Digital Writing</b> <ul style="list-style-type: none"> <li>Exploring the keyboard</li> <li>Adding and removing text</li> <li>Exploring the toolbar</li> <li>Making changes to text</li> <li>Explaining my choices</li> <li>Pencil or keyboard</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Privacy and security</li> </ul>	<b>Programming A</b> <b>Robot Algorithms</b> <ul style="list-style-type: none"> <li>Giving instructions</li> <li>Same but different</li> <li>Making predictions</li> <li>Mats and routes</li> <li>Algorithm design</li> <li>Debugging</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Health, Wellbeing and Lifestyle</li> </ul>	<b>Programming A</b> <b>Sequence in Music</b> <ul style="list-style-type: none"> <li>Introduction to Scratch</li> <li>Programming sprites</li> <li>Sequences</li> <li>Ordering commands</li> <li>Looking good</li> <li>Making an instrument</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Managing online information</li> </ul>	<b>Programming A</b> <b>Repetition in Shapes</b> <ul style="list-style-type: none"> <li>Programming a screen turtle</li> <li>Programming letters</li> <li>Patterns and repeats</li> <li>Using loops to create shapes</li> <li>Breaking things down</li> <li>Creating a program</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Self-image and identity</li> </ul>	<b>Programming A</b> <b>Selection in Physical Computing</b> <ul style="list-style-type: none"> <li>Connecting devices</li> <li>Combining output components</li> <li>Controlling with conditions</li> <li>Starting with selection</li> <li>Drawing designs</li> <li>Writing and testing algorithms</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Privacy and security</li> </ul>	<b>Data and Information</b> <b>Spreadsheets</b> <ul style="list-style-type: none"> <li>What is a spreadsheet?</li> <li>Modifying spreadsheets</li> <li>What's the formula?</li> <li>Calculate and duplicate</li> <li>Event planning</li> <li>Presenting data</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Self-image and identity</li> </ul>
Summer 2		<b>Programming B</b> <b>Introduction to Animation</b> <ul style="list-style-type: none"> <li>Comparing tools</li> <li>Joining blocks</li> <li>Making a change</li> <li>Adding sprites</li> <li>Project design</li> <li>Following my design</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Copyright and ownership</li> </ul>	<b>Programming B</b> <b>An Introduction to Quizzes</b> <ul style="list-style-type: none"> <li>ScratchJr recap</li> <li>Outcomes</li> <li>Using a design</li> <li>Changing a design</li> <li>Designing and creating a program</li> <li>Evaluating</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Copyright and Ownership</li> </ul>	<b>Programming B</b> <b>Events and Actions</b> <ul style="list-style-type: none"> <li>Moving a Sprite</li> <li>Maze movement</li> <li>Drawing lines</li> <li>Adding features</li> <li>Debugging movement</li> <li>Making a project</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Health, wellbeing and lifestyle</li> </ul>	<b>Programming B</b> <b>Repetition in Games</b> <ul style="list-style-type: none"> <li>Using loops to create shapes</li> <li>Different loops</li> <li>Animate your name</li> <li>Modifying a game</li> <li>Designing a game</li> <li>Creating our games</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Health, wellbeing and lifestyle</li> </ul>	<b>Programming B</b> <b>Selection in Quizzes</b> <ul style="list-style-type: none"> <li>Exploring conditions</li> <li>Selecting outcomes</li> <li>Asking questions</li> <li>Planning a quiz</li> <li>Testing a quiz</li> <li>Evaluating a quiz</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Health, Wellbeing and Lifestyle</li> </ul>	<b>Programming B</b> <b>Sensing</b> <ul style="list-style-type: none"> <li>The micro:bit</li> <li>Go with the flow</li> <li>Sensing inputs</li> <li>Finding your way</li> <li>Designing a step counter</li> <li>Making a step counter</li> </ul> <b>E-Safety:</b> <ul style="list-style-type: none"> <li>Online reputation</li> </ul>