

# Menston Primary School Computing Long-Term Overview

		<b>Y1</b>	<b>Y2</b>	<b>Y3</b>	<b>Y4</b>	<b>Y5</b>	<b>Y6</b>
<b>Autumn 1</b>		<p><b>Computing Systems and Networks <i>Technology Around Us</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Self-image and identity</li> </ul>	<p><b>Computing Systems and Networks <i>IT Around Us</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Self-image and identity</li> </ul>	<p><b>Computing Systems and Networks <i>Connecting Computers</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Online reputation</li> </ul>	<p><b>Computing Systems and Networks <i>The Internet</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Managing Online Information</li> </ul>	<p><b>Computing Systems and Networks <i>Sharing Information</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Self-Image and Identity</li> </ul>	<p><b>Computing Systems and Networks <i>Communication</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Health Well-being and Lifestyle</li> </ul>
<b>Autumn 2</b>		<p><b>Creating Media <i>Digital Painting</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Online reputation</li> </ul>	<p><b>Creating Media <i>Digital Photography</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Online Reputation</li> </ul>	<p><b>Creating Media <i>Animation</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Copyright and ownership</li> </ul>	<p><b>Creating Media <i>Audio Editing</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Copyright and ownership</li> </ul>	<p><b>Creating Media <i>Vector Drawing</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Online Reputation</li> </ul>	<p><b>Creating Media <i>Web Page Creation</i></b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Copyright and Ownership</li> </ul>

# Menston Primary School Computing Long-Term Overview

		Y1	Y2	Y3	Y4	Y5	Y6
Spring 1		<p><b>Programming A</b> <b>Moving a Robot</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Health, wellbeing and lifestyle</li> </ul>	<p><b>Project Evolve</b> Managing Online Information</p> <p><b>Creating Media</b> <b>Making Music</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Managing Online Information</li> </ul>	<p><b>Creating Media</b> <b>Desktop Publishing</b></p> <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> <p><b>E-Safety:</b></p> <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>	<p><b>Creating Media</b> <b>Photo Editing</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Online reputation</li> </ul>	<p><b>Creating Media</b> <b>Video Editing</b></p> <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> <p><b>E-Safety:</b></p> <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>	<p><b>Creating Media</b> <b>3D Modelling</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Privacy and Security</li> </ul>
Spring 2		<p><b>Data and Information</b> <b>Grouping Data</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Managing online information</li> </ul>	<p><b>Project Evolve</b> Privacy and Security</p> <p><b>Data and Information</b> <b>Pictograms</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Privacy and Security</li> </ul>	<p><b>Data and Information</b> <b>Branching Databases</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Privacy and security</li> </ul>	<p><b>Data and Information</b> <b>Data Logging</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Privacy and security</li> </ul>	<p><b>Data and Information</b> <b>Flat-File Databases</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Managing Online Information</li> </ul>	<p><b>Programming A</b> <b>Variables in Games</b></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>Managing online information</li> </ul>

# Menston Primary School Computing Long-Term Overview

		<b>Y1</b>	<b>Y2</b>	<b>Y3</b>	<b>Y4</b>	<b>Y5</b>	<b>Y6</b>
<b>Summer 1</b>		<p><b>Creating Media</b> <i>Digital Writing</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Privacy and security</li> </ul>	<p><b>Programming A</b> <i>Robot Algorithms</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Health, Wellbeing and Lifestyle</li> </ul>	<p><b>Programming A</b> <i>Sequence in Music</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Managing online information</li> </ul>	<p><b>Programming A</b> <i>Repetition in Shapes</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Self-image and identity</li> </ul>	<p><b>Programming A</b> <i>Selection in Physical Computing</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Privacy and security</li> </ul>	<p><b>Data and Information</b> <i>Spreadsheets</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Self-image and identity</li> </ul>
<b>Summer 2</b>		<p><b>Programming B</b> <i>Introduction to Animation</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Copyright and ownership</li> </ul>	<p><b>Programming B</b> <i>An Introduction to Quizzes</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Copyright and Ownership</li> </ul>	<p><b>Programming B</b> <i>Events and Actions</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Health, wellbeing and lifestyle</li> </ul>	<p><b>Programming B</b> <i>Repetition in Games</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Health, wellbeing and lifestyle</li> </ul>	<p><b>Programming B</b> <i>Selection in Quizzes</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Health, Wellbeing and Lifestyle</li> </ul>	<p><b>Programming B</b> <i>Sensing</i></p> <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> <p><b>E-Safety:</b></p> <ul style="list-style-type: none"> <li>• Online reputation</li> </ul>