

Parsloes Primary School

Subject: Computing

National Curriculum Overview 2017- 2018

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	<p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R1.4</b> I know I need to follow rules to keep safe online  <b>R1.5</b> I know what private information is and that I shouldn't share it online</p> <p><b>Communication</b>  <b>C1.1</b> I can use letters, basic punctuation, spacebar and enter key to type words and sentences quickly  <b>C1.2</b> I can use backspace to make corrections</p> <p><b>M1.3</b> I can use a digital still camera to take a picture  <b>M1.4</b> I understand the need to frame the image and keep the camera still</p>	<p><u>Pupils will learn:</u>  <b>Programming</b>  <b>P1.1</b> I can move a programmable toy in different directions, by giving and following instructions  <b>P1.2</b> I can combine commands to follow a route</p> <p><b>M1.1</b> I can paint with different colours using undo or eraser to correct mistakes  <b>M1.2</b> I can use different tools such as brush, pen, line, shape and fill</p> <p><b>Research &amp; Digital Literacy</b>  <b>R1.3</b> I can read words, look at pictures and watch videos on a website to find information</p>	<p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R1.1</b> I can explore a website using buttons, menus and hyperlinks  <b>R1.2</b> I can use the 'back' button</p> <p><b>M1.5</b> I can record an audio recording  <b>M1.6</b> I can play back an audio recording</p> <p><b>Data</b>  <b>D1.1</b> I can sort items into sets or simple tables</p>	<p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R1.1</b> I can explore a website using buttons, menus and hyperlinks</p> <p><b>Programming</b>  <b>P1.3</b> I can explore outcomes when a instructions are given in different orders</p> <p><b>Communication</b>  <b>C1.3</b> I can use shift key for punctuation</p>	<p><u>Pupils will learn:</u>  <b>Programming</b>  <b>P1.4</b> I can explain what an algorithm is  <b>P1.5</b> I can describe and write algorithms to complete specific tasks</p> <p><b>Communication</b>  <b>C1.1</b> I can use letters, basic punctuation, spacebar and enter key to type words and sentences quickly</p>	<p><u>Pupils will learn:</u>  <b>Data</b>  <b>D1.2</b> I can draw a simple graph, e.g. pictogram / block graph  <b>D1.3</b> I can explain whc the graph shows</p> <p><b>Research &amp; Digital Literac</b>  <b>R1.3</b> I can read words, look at pictures and watch videos on a websit to find information</p> <p><b>M1.3</b> I can use a digital still camera to take a picture  <b>M1.4</b> I understand the need to frame the image and keep the camera stil</p>
2	<p><b>Autumn 1</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R2.5</b>To use a search engine to find facts using key word search  <b>R2.6</b> To know what to do if I find something inappropriate online, &amp; where to go for help</p>	<p><b>Autumn 2</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R2.1</b> I can find out facts by navigating websites  <b>R2.2</b> I know each website has a unique address  <b>R2.4</b> I know not all the information found on the internet will be accurate or useful</p>	<p><b>Spring 1</b></p> <p><u>Pupils will learn:</u>  <b>Programming</b>  <b>P2.1</b> I can plan out and enter a sequence of commands to carry out specific tasks  <b>P2.2</b> I can reorder a sequence of instructions and correct errors in programs (debug)</p>	<p><b>Spring 2</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R2.3</b> To know each website has a unique address  <b>R2.4</b> To navigate to a website via favourites and typing in address</p> <p><b>Data</b></p>	<p><b>Summer 1</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R2.8</b>To know that the messages or images I put online leaves a trail  <b>R2.9</b> To know how to behave safely and respectfully online</p> <p><b>Multimedia</b></p>	<p><b>Summer 2</b></p> <p><u>Pupils will learn:</u>  <b>Multimedia</b>  <b>M2.1</b> To discuss the quality of my images and make decisions e.g. delet a blurred image  <b>M2.2</b>To use a photograpl within a document</p> <p><b>Programming</b></p>

	<p><b>R2.7</b> To know how to stay safe by going to appropriate websites</p> <p><b>Communication</b>  <b>C2.1</b> I can edit and improve my work by changing, adding or removing words  <b>C2.2</b> I can change the font size, colour and style to change my work</p> <p><b>Programming</b>  <b>P2.1</b> I can plan out and enter a sequence of commands to carry out specific tasks.</p>	<p><b>Programming</b>  <b>P2.5</b> I can explore a computer simulation that copies real life</p>	<p><b>Data</b>  <b>D2.3</b> I can collect and record data purposefully  <b>D2.4</b> I can present data in a bar chart  <b>D2.5</b> I can answer and ask questions about bar charts</p>	<p><b>D2.1</b> To read and use a simple database to find information  <b>D2.2</b> To add information to a database</p>	<p><b>M2.2</b> To combine a set of photographs to tell a story  <b>M2.4</b> I can capture video  <b>M2.5</b> I understand the need to frame the image and move the camera carefully  <b>M2.6</b> I can play back a video recording</p>	<p><b>P2.3</b> To explain what a program is  <b>P2.4</b> To predict the outcome of a program</p>
3	<p><b>Autumn 1</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R3.4</b> I can present the information I have found and share it with others  <b>R3.5</b> I know why we need to keep passwords safe and secure</p> <p><b>Programming</b>  <b>P3.1</b> I can refine a program by using the repeat command</p> <p><b>Communication</b>  <b>C3.1</b> I can use cut, copy and paste to reorder content</p>	<p><b>Autumn 2</b></p> <p><u>Pupils will learn:</u>  <b>Multimedia</b>  <b>M3.1</b> I can use the print screen function to capture an image  <b>M3.2</b> I can select and use a certain area of an image</p> <p><b>Data</b>  <b>D3.1</b> I can create a branching database to sort and organise items  <b>D3.2</b> I can filter and sort records in a database to answer questions</p>	<p><b>Spring 1</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R3.1</b> I can type in a URL to find a website  <b>R3.2</b> I can search online for images and information safely  <b>R3.3</b> I can talk about the reliability of information on the internet</p> <p><b>Multimedia</b>  <b>M3.3</b> I can zoom in and out on subjects appropriately  <b>M3.6</b> I can add simple titles and credits</p>	<p><b>Spring 2</b></p> <p><u>Pupils will learn:</u>  <b>Programming</b>  <b>P3.4</b> I can explain how to control a simulation  <b>P3.5</b> I can explain how a simulation is and isn't realistic</p> <p><b>Multimedia</b>  <b>M3.4</b> I can download the video files from the video camera  <b>M3.5</b> I can combine video clips to create a video</p>	<p><b>Summer 1</b></p> <p><u>Pupils will learn:</u>  <b>Multimedia</b>  <b>M3.7</b> I can re-record an audio recording to improve clarity  <b>M3.8</b> I can download and save a recording</p> <p><b>Communication</b>  <b>C3.4</b> I can type text and insert images onto pages  <b>C3.5</b> I can add text effects and move items around to find the best layout</p> <p><b>Programming</b>  <b>P3.2</b> I can create a procedure (group of commands) to do a</p>	<p><b>Summer 2</b></p> <p><u>Pupils will learn:</u>  <b>Data</b>  <b>D3.3</b> I can design a questionnaire to collect information, and display the information in a graph or table</p> <p><b>Communication</b>  <b>C3.6</b> I can send and reply to online messages, such as email, respectfully  <b>C3.7</b> I can add and open attachments  <b>C3.8</b> I know not to open messages and attachments from strangers</p>

	<p><b>C3.2</b> I can use and resize graphics within my work</p> <p><b>C3.3</b> I can use spell check to aid my writing</p>				<p>specific task, draw a specific shape</p> <p><b>P3.3</b> I can solve problems by breaking them into smaller parts</p>	
4	<p><b>Autumn 1</b></p> <p><u>Pupils will learn:</u>  <b>Data</b>  <b>D4.1</b> I can present data in a graph, selecting the most appropriate layout  <b>D4.3</b> I can answer questions relating to graphs, and pose my own questions</p> <p><b>Data</b>  <b>D4.5</b> I can add text and numbers to spreadsheet cells  <b>D4.6</b> I can add simple formulae: +-* /</p> <p><b>Research &amp; Digital Literacy</b>  <b>R4.4</b> I know what plagiarism is and when I can use the work of others</p> <p><b>Communication</b>  <b>C4.6</b> I can act appropriately &amp; respectfully online  <b>C4.7</b> I know how to deal with cyberbullying</p>	<p><b>Autumn 2</b></p> <p><u>Pupils will learn:</u>  <b>Research &amp; Digital Literacy</b>  <b>R4.1</b> I can use more complex search criteria to narrow down my search  <b>R4.2</b> I know that not all websites are accurate and can check information using a different site</p> <p><b>Communication</b>  <b>C4.1</b> I can different layouts and effects (such as text box, columns, tables, justification, borders, background colour) to refine and improve my work</p> <p><b>Multimedia</b>  <b>M4.3</b> I can crop and / or rotate an image where needed  <b>M4.4</b> I can adjust the colours on a photo</p>	<p><b>Spring 1</b></p> <p><u>Pupils will learn:</u>  <b>Data</b>  <b>D4.7</b> I can change the appearance of cells, e.g. size, borders and colours  <b>D4.8</b> I can copy and paste formulae within a spreadsheet</p> <p><b>Programming</b>  <b>P4.1</b> I can use if...then command within a series of instructions</p> <p><b>Multimedia</b>  <b>M4.5</b> I can plan an animation using a storyboard  <b>M4.6</b> I can shoot frames to combine into an animation  <b>M4.7</b> I can edit an animation to improve it / make it more realistic</p>	<p><b>Spring 2</b></p> <p><u>Pupils will learn:</u>  <b>Communication</b>  <b>C4.2</b> I can add a background colour to improve my work  <b>C4.3</b> I can add slide transitions and animation effects</p> <p><b>Research &amp; Digital Literacy</b>  <b>R4.3</b> I can make notes from information found on websites to present my findings  <b>R4.4</b> I know what plagiarism is and when I can use the work of others</p> <p><b>Multimedia</b>  <b>M4.1</b> I can group, copy and move shapes within a picture  <b>M4.2</b> I can order shapes / images by sending them to the back / front  <b>M4.3</b> I can crop and / or rotate an image where needed</p>	<p><b>Summer 1</b></p> <p><u>Pupils will learn:</u>  <b>Programming</b>  <b>P4.2</b> I can test existing programs to see how they could be improved  <b>P4.3</b> I can write a program for a specific purpose, incorporating features such as inputs, repetition and procedures</p> <p><b>Data</b>  <b>D4.2</b> I understand the difference between discrete and continuous data  <b>D4.4</b> I can use my graph in a document / presentation to share findings with others</p>	<p><b>Summer 2</b></p> <p><u>Pupils will learn:</u>  <b>Communication</b>  <b>C4.4</b> I know how and why to keep my personal information private  <b>C4.5</b> I can display myself appropriately online, e.g. avatar, code name</p> <p><b>Multimedia</b>  <b>M4.8</b> I can put sounds over an animation  <b>M4.9</b> I can add titles an photos into an animation  <b>M4.10</b> I can plan an create an animation for given purpose</p>
5	<p><b>Autumn 1</b></p> <p><u>Pupils will learn:</u>  <b>Data</b></p>	<p><b>Autumn 2</b></p> <p><u>Pupils will learn:</u>  <b>Programming</b></p>	<p><b>Spring 1</b></p> <p><u>Pupils will learn:</u>  <b>Data</b></p>	<p><b>Spring 2</b></p> <p><u>Pupils will learn:</u>  <b>Data</b></p>	<p><b>Summer 1</b></p> <p><u>Pupils will learn:</u>  <b>Communication</b></p>	<p><b>Summer 2</b></p> <p><u>Pupils will learn:</u>  <b>Programming</b></p>

	<p><b>D5.1</b> I can interrogate a database using more complex searches</p> <p><b>Data</b>  <b>D5.4</b> I can use simple functions, e.g. SUM, AVERAGE, to solve problems  <b>D5.5</b> I can use brackets to organise formulae</p> <p><b>Research &amp; Digital Literacy</b>  <b>R5.1</b> I know the information found on some sites will be biased  <b>R5.4</b> I know different ways of reporting concerns about content</p>	<p><b>P5.1</b> I can plan and test my algorithms and programs, detecting and correcting errors as needed  <b>P5.2</b> I can use variables in programs</p> <p><b>Communication</b>  <b>C5.1</b> I can develop consistency across the document</p> <p><b>Multimedia</b>  <b>M5.1</b> I can add and combine shapes to design a 3D model  <b>M5.2</b> I can add detail to my 3D model</p>	<p><b>D5.6</b> I can change data in a formula to answer 'What if?' questions  <b>D5.7</b> I can change the format of cells appropriately  <b>D5.8</b> I can create a graph using spreadsheet data</p> <p><b>Communication</b>  <b>C5.2</b> I can add multimedia elements, e.g. sounds, animation  <b>C5.3</b> I can trigger animations or link to other slides when objects are pressed</p> <p><b>Multimedia</b>  <b>M5.7</b> I can create an audio recording and add it to other software</p>	<p><b>D5.2</b> I can design and create a database  <b>D5.3</b> I can use information in a database to create a graph in order to answer questions</p> <p><b>Research &amp; Digital Literacy</b>  <b>R5.2</b> I know that images and text found on websites is subject to copyright  <b>R5.3</b> I know how to credit the use of websites in my work, and why this should be done</p>	<p><b>C5.4</b> I understand that information I put online leaves a trail, or digital footprint  <b>C5.5</b> I know how and why to create secure passwords for online accounts  <b>C5.6</b> I know what spam is, and how to deal with it</p> <p><b>Multimedia</b>  <b>M5.3</b> I can improve a photo with editing tools e.g. blur, filters, add border</p>	<p><b>P5.3</b> I can design and write a program that controls or simulates physical systems and sensors</p> <p><b>Multimedia</b>  <b>M5.4</b> I can edit the video; trimming and re-ordering clips  <b>M5.5</b> I can add a voice-over and / or background music to a video  <b>M5.6</b> I can add titles and credits to my video</p>
6	<p><b>Autumn 1</b></p> <p><u>Pupils will learn:</u>  <b>Communication</b>  <b>C6.2</b> I can create a consistent design for my presentation, and present to others</p> <p><b>C6.3</b> I know that some websites have age restrictions, and why these might be in place</p>	<p><b>Autumn 2</b></p> <p><u>Pupils will learn:</u>  <b>Programming</b>  <b>P6.1</b> I can design and create a game, app and / or model, incorporating variables and different forms of input and output</p> <p><b>P6.2</b> I can test, debug and modify a program to improve it</p>	<p><b>Spring 1</b></p> <p><u>Pupils will learn:</u>  <b>Communication</b>  <b>C6.1</b> I can discuss and evaluate my documents, and make amendments as needed</p> <p><b>Research &amp; Digital Literacy</b>  <b>R6.1</b> I understand how computer networks work, including the internet  <b>R6.2</b> I understand the difference between the internet and an internet service, e.g. the world wide web, VOIP</p>	<p><b>Spring 2</b></p> <p><u>Pupils will learn:</u>  <b>Data</b>  <b>D6.1</b> I can design and create a spreadsheet for a specific purpose, incorporating different features of design and function</p> <p><b>Multimedia</b>  <b>M6.1</b> I can take photos for a given purpose and use them in my work</p>	<p><b>Summer 1</b></p> <p><u>Pupils will learn:</u>  <b>Communication</b>  <b>C6.4</b> I can describe the opportunities computer networks and the internet offer for communication and collaboration  <b>C6.5</b> I know different ways to report concerns about content &amp; contact</p>	<p><b>Summer 2</b></p> <p><u>Pupils will learn:</u>  <b>Multimedia</b>  <b>M6.2</b> I can plan and create an animation for a given purpose  <b>M6.3</b> I can edit an animation to improve it / make it more realistic  <b>M6.4</b> I can combine an animation with other software  <b>M6.5</b> I can select and use appropriate multimedia tools, and combine them for a given purpose with confidence</p>

			<p><b>R6.3</b> I can use search engines effectively, and I know how search results are selected and ranked</p>			
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