

Year 5- Coding

Lesson	Title	Aims (Objectives)	Success Criteria
<u>1</u>	Coding Efficiently	<ul style="list-style-type: none"> To review existing coding knowledge. To begin to be able to simplify code. To create a playable game. 	<ul style="list-style-type: none"> Children can use simplified code to make their programming more efficient. Children can use variables in their code. Children can create a simple playable game.
<u>2</u>	Simulating a Physical System	<ul style="list-style-type: none"> To understand what a simulation is. To program a simulation using 2Code. 	<ul style="list-style-type: none"> Children can plan an algorithm modelling the sequence of traffic lights. Children can select the right images to reflect the simulation they are making. Children can use their plan to program the simulation to work in 2Code.
<u>3</u>	Decomposition and Abstraction	<ul style="list-style-type: none"> To know what decomposition and abstraction are in Computer Science. To take a real-life situation, decompose it and think about the level of abstraction. To use decomposition to make a plan of a real-life situation. 	<ul style="list-style-type: none"> Children can make good attempts to break down their task into smaller achievable steps. Children recognise the need to start coding at a basic level of abstraction to remove superfluous details from their program that do not contribute to the aim of the task.
<u>4</u>	Friction and Functions	<ul style="list-style-type: none"> To understand how to use friction in code. To begin to understand what a function is and how functions work in code. 	<ul style="list-style-type: none"> Children can create a program which represents a physical system. Children can create and use functions in their code to make their programming more efficient.
<u>5</u>	Introducing Strings	<ul style="list-style-type: none"> To understand what the different variable types are and how they are used differently. To understand how to create a string. 	<ul style="list-style-type: none"> Children can create and use strings in programming. Children can set/change variable values appropriately. Children know some ways that text variables can be used in coding.
<u>6</u>	Text Variables and Concatenation	<ul style="list-style-type: none"> To begin to explore text variables when coding. To understand what concatenation is and how it works. 	<ul style="list-style-type: none"> Children can create a string and use it in their program. Children can use strings to produce a range of outputs in their program.

Year 5- Online Safety

Lesson	Title	Aims (Objectives)	Success Criteria
<u>1</u>	Responsibilities and Support when Online	<ul style="list-style-type: none"> To gain a greater understanding of the impact that sharing digital content can have. To review sources of support when using technology. To review children' responsibility to one another in their online behaviour. 	<ul style="list-style-type: none"> Children critically about the information that they share online both about themselves and others. Children know who to tell if they are upset by something that happens online. Children can use the SMART rules as a source of guidance when online.
<u>2</u>	Protecting Privacy	<ul style="list-style-type: none"> To know how to maintain secure passwords. To understand the advantages, disadvantages, permissions, and purposes of altering an image digitally and the reasons for this. To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online. 	<ul style="list-style-type: none"> Children think critically about what they share online, even when asked by a usually reliable person to share something. Children have clear ideas about good passwords. Children can see how they can use images and digital technology to create effects not possible without technology. Children have experienced how image manipulation could be used to upset them or others even using simple, freely available tools and little specialist knowledge.
<u>3</u>	Citing Sources	<ul style="list-style-type: none"> To learn about how to reference sources in their work. To search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information. 	<ul style="list-style-type: none"> Children can cite all sources when researching and explain the importance of this. Children select keywords and search techniques to find relevant information and increase reliability.
<u>4</u>	Reliability	<ul style="list-style-type: none"> Ensuring reliability through using different methods of communication. 	<ul style="list-style-type: none"> Children show an understanding of the advantages and disadvantages of different forms of communication and when it is appropriate to use each.

Year 5- Word Processing (Google Docs)

Lesson	Title	Aims (Objectives)	Success Criteria
<u>1</u>	Making a Document from a Blank Page	<ul style="list-style-type: none"> To know what a word processing tool is for. 	<ul style="list-style-type: none"> Children know what a word processing tool is for. Children will be able to create a word processing document, altering the look of the text and navigating around the document.
<u>2</u>	Inserting Images: Considering Copyright	<ul style="list-style-type: none"> To add and edit images to a document. 	<ul style="list-style-type: none"> Children know how to add images to a document. Children know the correct way to search for images that they are permitted to reuse. Children know how to attribute the original artist of an image.
<u>3</u>	Editing Images	<ul style="list-style-type: none"> To know how to use word wrap with images and text. 	<ul style="list-style-type: none"> Children can edit their images within Docs to best present them alongside text. Children understand wrapping of images and text.
<u>4</u>	Adding the Text	<ul style="list-style-type: none"> To change the look of text within a document. 	<ul style="list-style-type: none"> Children can add appropriate text to their document, formatting in a suitable way. Children can use styles to format a document. Children can use bullet points and numbering.
<u>5</u>	Finishing Touches	<ul style="list-style-type: none"> To add features to a document to enhance its look and usability. 	<ul style="list-style-type: none"> Children can add text boxes and shapes. Children can use page breaks, headers and footers. Children can add hyperlinks to places in the document and to an external website. Children can add an automated contents page.
<u>6</u>	Sharing Files	<ul style="list-style-type: none"> To use the sharing capabilities in Google docs 	<ul style="list-style-type: none"> Children can share their documents with selected users. Children understand the different permissions when sharing in Google docs. Children can share using a share link.
<u>7</u>	Presenting Information Using Tables	<ul style="list-style-type: none"> To use tables within Google Docs to present information. 	<ul style="list-style-type: none"> Children can create a vector drawing in their document. Children can add tables to present information.

			<ul style="list-style-type: none">• Children can edit properties of tables including borders, colours, merging cells, adding and removing rows and columns.
<u>8</u>	Writing a Letter Using a Template	<ul style="list-style-type: none">• To introduce children to templates.	<ul style="list-style-type: none">• Children can use a template and edit it appropriately.• Children can use the spelling and grammar tools built into Google docs.• (Optional) Children know how to save a document as a pdf and the reasons for doing this.• (Optional) Children know how to print their documents and can print ranges of pages.