

# Sapphire Year 2 – Computing Medium Term Planning

*Differentiation by input see the weekly planning sheet/*

-Key vocab for each learning objective is in red font /

-Resources -see the weekly planning /

-Minimum Assessment for Learning strategies for all topics = Peer Talk; targeted questioning; mini white boards; and self and peer marking

- Long term memory development strategies= Recapping pervious learning at the start of each new topic / Long term memory strategy linked to the objectives on this sheet for each week

-**Computing** Cultural Capital = To become familiar with different IT/technological devices and using these with developing precision and accuracy

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
<b>Autumn first half</b>  <b>Computing Systems and Networks – IT around us</b>	<p><b>What is IT?</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To recognise the uses and features of information technology</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can describe some uses of computers</li> <li>- I can identify examples of computers</li> <li>- I can identify that a computer is a part of IT</li> </ul>	<p><b>IT in school</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To identify the uses of information technology in the school</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can identify examples of IT</li> <li>- I can sort school IT by what it's used for</li> <li>- I can identify that some IT can be used in more than one way</li> </ul>	<p><b>IT in the world</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To identify information technology beyond school</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can find examples of information technology</li> <li>- I can sort IT by where it is found</li> <li>- I can talk about uses of information technology</li> </ul>	<p><b>The benefits of IT</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To explain how information technology benefits us</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can recognise common types of technology</li> <li>- I can demonstrate how IT devices work together</li> <li>- I can say why we use IT</li> </ul>	<p><b>Using IT safely</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To explain how to use information technology safely</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can list different uses of information technology</li> <li>- I can talk about different rules for using IT</li> <li>- I can say how rules can help keep me safe</li> </ul>	<p><b>Using IT in different ways</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To recognise that choices are made when using information technology</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can identify the choices that I make when using IT</li> <li>- I can use IT for different types of activities</li> <li>- I can explain the need to use IT in different ways</li> </ul>	Assessment, Consolidation and Review
<b>Key Vocabulary</b>	<b>Information technology (IT), computer</b>	<b>Information technology (IT)</b>	<b>Information technology (IT), computer</b>	<b>Information technology (IT), computer, barcode, scanner/scan</b>	<b>Information technology (IT), rules, safe</b>	<b>Information technology (IT), choices</b>	
<b>KS1 Computing NC Links</b>	1.4, 1.5, 1.6	1.4, 1.5, 1.6	1.4, 1.5, 1.6	1.4, 1.5, 1.6	1.4, 1.5, 1.6	1.4, 1.5, 1.6	
<b>Computing Strand</b>	CS, NW, SS	CS, IT, NW	CS, IT, NW	CS, IT, NW	CS, NW, SS	CS, IT, NW, SS	
<b>Education for a Connected World</b>	- Health, well-being and lifestyle	- Health, well-being and lifestyle	Health, well-being and lifestyle	Health, well-being and lifestyle	Health, well-being and lifestyle	Health, well-being and lifestyle	









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	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
<p>Summer second half</p> <p>Programming B – Introduction to Quizzes</p>	<p><b>ScratchJr Recap</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To explain that a sequence of commands has a start</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can identify that a program needs to be started</li> <li>- I can identify the start of a sequence</li> <li>- I can show how to run my program</li> </ul>	<p><b>Outcomes</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To explain that a sequence of commands has an outcome</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can change the outcome of a sequence of commands</li> <li>- I can match two sequences with the same outcome</li> <li>- I can predict the outcome of a sequence of commands</li> </ul>	<p><b>Using a Design</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To create a program using a given design</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can build the sequences of blocks I need</li> <li>- I can decide which blocks to use to meet the design</li> <li>- I can work out the actions of a sprite in an algorithm</li> </ul>	<p><b>Changing a Design</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To change a given design</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can choose backgrounds for the design</li> <li>- I can choose characters for the design</li> <li>- I can create a program based on the new design</li> </ul>	<p><b>Designing and Creating a Program</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To create a program using my own design</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can build sequences of blocks to match my design</li> <li>- I can choose the images for my own design</li> <li>- I can create an algorithm</li> </ul>	<p><b>Evaluating</b></p> <p><u>Learning Objective</u></p> <ul style="list-style-type: none"> <li>- To decide how my project can be improved</li> </ul> <p><u>Success Criteria</u></p> <ul style="list-style-type: none"> <li>- I can compare my project to my design</li> <li>- I can debug my program</li> <li>- I can improve my project by adding features</li> </ul>	<p>Assessment, Consolidation and Review</p>
Key Vocabulary	Sequence, command, program, run, start	Sequence, command, outcome, predict, program, blocks	Sprite, algorithm, blocks, design, sequence, predict	Actions, sprite, project, blocks, design, sequence, modify, change	Design, algorithm, build, sequence, blocks, match	Compare, design, debug, program, features, evaluate	
KS1 NC Links	1.1, 1.2, 1.3	1.1, 1.2, 1.3	1.1, 1.2, 1.3	1.1, 1.2, 1.3	1.1, 1.2, 1.3	1.1, 1.2, 1.3	
Computing Strand	PG	PG	DD, PG	DD, PG	DD, PG	DD, PG	
Education for a Connected World							