

# Computer Science Long Term Plan Year 9 2021-22

## Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study	<b>Recap</b> <span style="margin-left: 100px;"><b>Understanding Computers</b></span>							
Core Learning	<p><b>Objectives:</b> Understand drives and cloud storage Organise files in folders</p> <p><b>Content:</b> File management</p>	<p><b>Objectives:</b> Recall the main parts of a computer system Describe the function of the main components</p> <p><b>Content:</b> Input &amp; output devices / secondary storage devices CPU / Memory</p>	<p><b>Objectives:</b> Describe the F-D-E cycle</p> <p><b>Content:</b> Fetch – Decode -Execute cycle Binary representation (8- bit)</p>	<p><b>Objectives:</b> Describe C_S and P-P network architectures Compare network architectures</p> <p><b>Content:</b> Computer networks architectures Peer Review / Improvements</p>				
Opportunities for Challenge		Less common devices Cores and cache	Well-designed poster with detailed information Adding binary numbers together	Suggest suitable topologies/architectures for different scenarios				
Assessment		Questioning / Task completion	Questioning / Task completion	Socratic Test				

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	<b>Modelling with Small basic – Lemonade Stand or Lunar Lander</b>						
Core Learning	<p><b>Objectives:</b> Decompose problems Recall and use commands</p> <p><b>Content:</b> Variables, constants and assignment Input and output Calculations</p>	<p><b>Objectives:</b> Work methodically Use and apply programming techniques</p> <p><b>Content:</b> Selection (making decisions) Iteration (repeating instructions)</p>	<p><b>Objectives:</b> Identify and resolve errors Evaluate solutions</p> <p><b>Content:</b> Subprograms Peer Review</p>				