

## Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7			
Area of Study	Computing systems									
Core Learning	Objectives: Content:									
	<ul><li>Describe how the</li><li>Be able to identify</li></ul>	tion of the computer hardw components work togethe / different hardware compo e basic functions of the CPU	r to execute programs onents	Hardware and Internal co Deconstruction of compur Fetch Decode Execute Cyc The CPU in more depth	HALF TERM					
Opportunities for Challenge	Reconstruction of the computer systems after deconstruction, further research and questions on the Von Neumann architecture.									
Assessment	Formative assessment: Through teacher observation, questioning and marked activities Summative assessment: End of Unit assessment									

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study				amming – Part I			
Core Learning	<ul> <li>Objectives:</li> <li>To understand the use of python as a coding language and why it is a popular programming language – real world applications of python</li> <li>To be able to input and output data using python</li> <li>To be able to understand the importance of sequencing and selection in python</li> <li>To be able to use selection and sequencing to make simple python programs</li> </ul>			Inputs and Outputs Selection Murder Mystery in pytho	n		
Opportunities for Challenge	More complex python co	oding challenges. Introduci	ng iteration.				
Assessment							





### **Justice Term**

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19		
Area of Study			Is Technolog	y Ethical?			1	
Core Learning	<ul> <li>To be able to name Protection Act, Cop</li> <li>To be able to descriand the environmen</li> <li>To be able to explain</li> </ul>	technology is used in society. and explain the 3 laws associate yright protection act and Compu- be positive and negative effects nt. in what e-waste is and how it is a in the positive effects that techn	ed with computing, Data	Content: Ethical/Unethical use of technolo How technology is used in the "re E-waste Positives and negative effects of t	HALF TERM			
Opportunities for Challenge	Teach Computing Curriculum Explorer activities:							
Assessment	Formative assessment: Throug Summative assessment: End o	h teacher observation, question f Unit assessment	ing and marked activities					

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25		
Area of Study	Cyber Security							
Core Learning		t cybersecurity is we need cybersecurity fy and name various cybersecur		Social engineering Hacking, Brute force & DDoS atta Protection (Ani-malware, Firewal Creating "Scam bots" in python		Easter		
Opportunities for Challenge	Teach Computing Curriculum Explorer activities:							
Assessment	Formative assessment: Through teacher observation, questioning and marked activities Summative assessment: End of Unit assessment							



## Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31			
Area of Study		Py	/thon programming – P	art II - Using Trinket.io					
Core Learning	<ul> <li>Use selection to control t</li> <li>Use iteration to control the</li> </ul>	d, output statements in sequent he flow of program execution he flow of program execution aries to increase the complexity	ce S	Content: Variables, assignment, lists Selection (if-elif-else) teration (while and for loops) Jsing random Arrays and Dictionaries Furtle	HALF TERM				
Opportunities for Challenge	More complicated coding, introduction of functions and procedures.								
Assessment	Formative assessment: Through teacher observation, questioning and marked activities Summative assessment: End of Unit assessment								

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37			
Area of Study	Website Development								
Core Learning	<ul> <li>To use secondary researc</li> <li>To understand what a me</li> <li>To use of moodboards and</li> </ul>	software development cycle is a		Learning about primary and seco Conducting secondary research Creating moodboards and wire fr The software development cycle Website creation using google sit Reviewing and evaluation.		HALF TERM			
Opportunities for Challenge	The use of Bootstrap and HTML to add to the website design.								
Assessment		th teacher observation, question of Unit assessment based upon v	-	ction point halfway through the v	vebsite				

