

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7			
Area of Study										
7 and or orday	Introduction to Computing									
Core Learning	Objectives: Responsible and respectful use of technology									
	Recognise the need to be safe and respectful online									
		the different aspects of Onl	•	Storage devices and the			HALF TERM			
	 To be able to know the simple hardware that computers use To understand file sizes and how these are created/converted File sizes and converting file sizes Data representation – Binary 									
	To understand what binary is and how computers use it.									
Opportunities for Challenge	Research & worksheets on the History of the internet and how it developed and continues to develop.									
	Worksheets on different types of hardware, Questions on converting larger files sizes and Binary Addition									
Assessment										
		Through teacher observation: End of Unit assessment	n, questioning and marked	activities						

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13				
Area of Study	Computing systems									
Core Learning	 Describe the function of the computer hardware components Describe how the components work together to execute programs Be able to identify different hardware components To understand the basic functions of the CPU Hardware and Internal components (CPU, memory, storage) Deconstruction of computers Fetch Decode Execute Cycle The CPU in more depth									
Opportunities for Challenge	Reconstruction of the computer systems after deconstruction, further research and questions on the Von Neumann architecture.									
Assessment	Formative assessment: Throug Summative assessment: End of	th teacher observation, question of Unit assessment	ing and marked activities							



W/C Area of Study	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM			
Area or Study										
Core Learning	To be able to understand the fundamentals of Computational Thinking. To be able to describe and explain what abstraction, decomposition and problem solving is To be able to apply abstraction, decomposition and problem-solving skills to everyday problems. To learn the components of flow charts			-						
Opportunities for Challenge	Teach Computing Curric									
Assessment		Formative assessment: Through teacher observation, questioning and marked activities Summative assessment: End of Unit assessment								

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25					
Area of Study	Python Programming – Part I										
Core Learning	programming langu To be able to input To be able to under	use of python as a coding langua lage – real world applications of and output data using python stand the importance of sequen election and sequencing to make	ge and why it is a popular python cing and selection in python	Content: Computational thinking Sequencing Inputs and Outputs Selection Murder Mystery in python	Easter						
Opportunities for Challenge	More complex python coding challenges. Introducing iteration.										
Assessment	Formative assessment: Throug Summative assessment: Pytho	h teacher observation, question on programming assessment.	ing and marked activities								



Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31					
Area of Study	Is Technology Ethical?										
Core Learning	 To be able to name Misuse Act, Copyrig To be able to descri and the environmee To be able to explai 	technology is used in society. and explain the 3 laws associate th protection act and Computer tibe positive and negative effects nt. in what e-waste is and how it is a in the positive effects that techn	gy eal world" technology on society and the en	nvironment	HALF TERM						
Opportunities for Challenge	Teach Computing Curriculum Explorer activities:										
Assessment	Formative assessment: Throug Summative assessment: End o	th teacher observation, question of Unit assessment	ing and marked activities								

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37				
Area of Study	Website Development									
Core Learning	 To use secondary researc To understand what a me To use of moodboards ar To be able to create a we 	nary and secondary research is the to begin the website design. bood board and wireframe is and wireframes.	of E-waste on society.	Content: Learning about primary and secondary research Conducting secondary research Creating moodboards and wire frames The software development cycle Website creation using google sites Reviewing and evaluation.						
	To review and evaluate a	• • •	,							



Opportunities for Challenge	The use of Bootstrap and HTML to add to the website design.	
Assessment	Formative assessment: Through teacher observation, questioning and marked activities – reflection point halfway through the website Summative assessment: End of Unit assessment based upon website project.	