

## Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7			
Area of Study		Using Computers Safely and Effectively								
Core Learning	<ul><li>Be able to</li><li>Construct a</li></ul>	the need to be safe and re login and use the school sy an effective email and send discuss the different aspect	ystems d it to the correct recipients		Content:         Strong passwords         Responsible and respectful use of technology         Online safety         Phishing and Spam			HALF TERM		
Opportunities for Challenge	Research & worksheets on the History of the internet and how it developed and continues to develop.									
Assessment	Formative assessment: Through teacher observation, questioning, quizzes and marked activities Summative assessment: End of Unit Quiz assessment									

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study							
Core Learning	Objectives:         • To be able to know the simple hardware that computers use         • To understand file sizes and how these are created/converted         • To understand what binary is and how computers use it.			Content: Simple hardware Storage devices and the File sizes and convertin Data representation – E	g file sizes		
Opportunities for Challenge	Worksheets on differe						
Assessment		:: Through teacher observat ht: End of Unit assessment					



### **Justice Term**

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19		
Area of Study	Computational Thinking – Part I							
Core Learning	Objectives:       Content:         • To be able to understand the fundamentals of Computational Thinking.       Using, understanding and creating everyday algorithms.         • To be able to describe and explain what abstraction, decomposition and problem solving is       Using, understanding and creating everyday algorithms.         • To be able to apply abstraction, decomposition and problem-solving skills to everyday problems.       Using, understanding and creating everyday algorithms.         • To learn the components of flow charts       To learn the components of flow charts							
Opportunities for Challenge	Creating more complex algorithms and flow charts to represent "real world" problem solving.							
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	Programming Essentials – Part I – Micro:Bits							
Core Learning	Objectives:       Content:         • Define and modify sequence, selections and iteration in code.       Variables and assignment         • Identify and use variables in coding.       Operators         • Apply programming constructs to solve "real world" problems       Selection (if-else) Count-controlled iteration (for loops) Physical Computing							
Opportunities for Challenge	The use of comparable operators and Boolean operators in block coding.         Extensions for more complex block coding.							
Assessment	Formative assessment: Throug Summative assessment: End c	h teacher observation, question f Unit assessment	ing and marked activities					



## Courage Term

W/C	Week 26	Week 27	Week 28	Week 28	Week 30	Week 31			
Area of Study	Computational Thinking – Part II								
Core Learning	Objectives     Content:       • Flowol?								
Opportunities for Challenge Assessment	Formative assessment: Throug Summative assessment: End o	h teacher observation, questioni f Unit assessment	ng and marked activities						

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37				
Area of Study		Programming Essentials –Part II – Scratch Programming								
Core Learning	Objectives:       Content:         • To be able to use programming skills learnt in another IDE and transfer those skills to the Scratch IDE       Variables and assignment         • Consolidate knowledge of programming ie variables, sequences, selection and iteration       Variables and assignment         • Consolidate knowledge of programming ie variables, sequences, selection and iteration       Variables and assignment         • Begin to understand how an IDE can be helpful for coding       Count-controlled iteration (for loops)         • Develop a Space Invaders game which uses all the elements previously learnt.       Using different Integrated Development Environments									
Opportunities for Challenge	The use of comparable operators and Boolean operators in block coding. Extensions for more complex block coding.									
Assessment	Formative assessment: Through teacher observation, questioning and marked activities Summative assessment: End of Unit Assessment based on the Space Invaders game project.									

