

### 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	Objectives:         • Recognise         • Be able to         • Construct         • Be able to	the need to be safe and res login and use the school sys an effective email and send discuss the different aspect	pectful online stems it to the correct recipients s of Online Safety		Content: Strong passwords Responsible and respec 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 asses Summative asse	sment: Through teacher ob ssment: End of Unit Quiz a	servation, questioning, quiz ssessment	zes and marked activities						

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study							
Core Learning	Objectives:			Content:			
	<ul> <li>To be able to known</li> <li>To understand fil</li> <li>To understand w</li> </ul>	ow the simple hardware tha le sizes and how these are c rhat binary is and how comp	t computers use reated/converted puters use it.	Simple hardware Storage devices and the File sizes and converting Data representation – B	ir characteristics g file sizes inary		
Opportunities for Challenge	Worksheets on differe						
Assessment	Formative assessment Summative assessmen						



### **Justice Term**

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19				
Area of Study	Computational Thinking									
Core Learning	<ul> <li>Objectives:</li> <li>To be able to understand</li> <li>To be able to describe an solving is</li> <li>To be able to apply abstreveryday problems.</li> <li>To learn the components</li> </ul>	I the fundamentals of Computati d explain what abstraction, deco action, decomposition and probl s of flow charts	onal Thinking. omposition and problem em-solving skills to	Content: Using, understanding and creating everyday algorithms. Discussions on Computing in "real world" contexts, including careers. How computational thinking is applied Introduction to 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 c	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	Data Analysis using Spreadsheets								
Core Learning	Objectives:         To be able to understand         To be able to choose app         To be able to implement         To be able visually mode	I the fundamentals of spreadshe propriate formula when analysing conditional formatting I data for easy comparisons	ets I ; data / ,	Content: Understanding what data is and i Demonstrating how to utilise for Applying cell formatting Contextualising spreadsheets in r Applying conditional formatting t	ntroducing spreadsheets, cells, o nulae eal world scenarios echniques	columns and rows.			





		Creating charts and Graphs	
Opportunities for Challenge	Creating more complex algorithms and flow charts to represent "real world" problem solving		
for onanongo			
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 28	Week 30	Week 31			
Area of Study	Programming Essentials – Part I – Micro:Bits								
Core Learning	Objectives:		9	Content:					
	<ul> <li>Define and modify seque</li> <li>Identify and use variables</li> <li>Apply programming const</li> </ul>	ence, selections and iteration in c s in coding. structs to solve "real world" prob	ode.	Variables and assignment Operators Selection (if-else) Count-controlled iteration (for loops) Physical Computing					
Opportunities for Challenge	Using boolean operators and functions within the coding environment								
Assessment	Formative assessment: Throug Summative assessment: End c	sh 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	Programming Essentials –Part II – Scratch Programming									
Core Learning	<ul> <li>Objectives:</li> <li>To be able to use program the Scratch IDE</li> <li>Consolidate knowledge of tion</li> <li>Begin to understand how</li> <li>Develop a Space Invaders</li> </ul>	nming skills learnt in another IDE f programming ie variables, sequ r an IDE can be helpful for coding s game which uses all the elemer	and transfer those skills to ences, selection and itera-	<u>Content:</u> Variables and assignment Operators Selection (if-else) Count-controlled iteration (for loo Using different Integrated Develo	SUMMER					
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 based on the	ing and marked activities Space Invaders game project.							

