Home-School Learning Collaboration – Computing



Topics in this cycle: Boolean logic	Taught: Autumn 2	Year Group: 8	
Key knowledge/concepts to be learnt ('Tell me about')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning	
 What is Boolean and how do we use it?? Identify what Boolean is and be able to explain what Boolean logic is. To understand the Boolean operators. Apply Boolean logic to solve simple problems What are truth tables? 		Notes/Information Boolean & logic gates Boolean Logic & Logic Gates: Crash Course Computer Science #3 Videos	
To be able to complete truth tables. Be able to use AND, OR, and NOT correctly.		Boolean lesson Boolean logic KS3 Y8 Computing Lesson Resources Oak National Academy	
What are logic gates? Recognize and use simple logic gates Recognize logic gate symbols Apply logic gates to basic real-life problems			
What are logic circuits? Understanding that logic circuits are diagrams that use logic gates Work out the output of a simple logic circuit knowing the input			

Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?	
Boolean	An expression that evaluates to either True or False	This unit will be assessed during assessment week. The questions on this topic will be as follows:	
Logic gates	An electronic component that carries out a logical operation	Identifying logic gates.	
Logic circuits	A circuit that is made from logic gates	Combing logic gates to create a logic circuit.Completing a truth table for a logic gate or logic	
	A table showing the outputs for all possible combinations of inputs to a logic gate or logic operation.	circuit.	
		Family Learning Opportunities	
Truth tables		Create a DIY puzzle game with family Make paper cards for 0 and 1, and pretend to be a logic gate:	
		Parent gives inputs A and B	
		Student acts like the AND or OR gate and gives the output	