Leintwardine Endowed CE Primary School Learning Journey Key

'Letting Our Light Shine'

SUBJECT : Computing YEAR : A TERM : Spring 2 YEAR GROUPS : 5/6

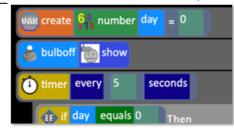
Key Question: Why is binary important when using technology?

Information which will help me

Question	Vocabulary to	
	Use	
What is binary?	Base 2	
	Base 10	
	Transistor	
	Bit	
	Digit	
	Integer	
Can you count using	Switch	
binary?	Nibble	
Straing.	Byte	
	Kilobyte (KB)	
	Megabyte (MB)	
Cara way as a sure that	Gigabyte (GB)	
Can you convert from	Tetrabyte (TB)	
decimals to binary?	Electric signals	
	Decimal	
	Denary system	
Can I use binary on	Electronical	
Purple Mash to create	signals	
a game?	Receiver	
	Activated	
	Computer	
	Memory space	



A computer uses binary systems because a computer operates on electronic signals and a system of switches that can be either off or on.



2Code will support our understanding of how games work with binary.

Binary: A number system in which there are two separate integers that can be used to make all numbers. This is also called the base 2.

Denary: A number system in which there are ten separate integers that can be used to make all numbers. This is also called the **base** 10 and **decimal system**.

What number is being shown here in binary?





We will be programming to explore binary and how to work it out as decimals



Can I....?

Can I explain how all data in a computer is saved in the computer memory in a binary format? Can I explain that binary uses only the integers 0 and 1? Can I count up from 0 in binary using visual aids if needed? Can I convert numbers to binary using the division by two method? Can I make use of a variable set to 0 or 1 to control game states?