

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?

Question	Vocabulary to Use	Information which will help me	Can I....?
What is binary?	Base 2 Base 10 Transistor Bit Digit Integer Switch	 <div data-bbox="1350 451 1821 555" style="border: 1px solid black; padding: 5px;"> What number is being shown here in binary? </div> <div data-bbox="1400 568 1787 852">  </div>	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 you count using binary?	Nibble Byte Kilobyte (KB) Megabyte (MB) Gigabyte (GB)	<div data-bbox="689 715 1227 874" style="border: 1px solid black; padding: 5px;"> A computer uses binary systems because a computer operates on electronic signals and a system of switches that can be either off or on. </div>	Can I count up from 0 in binary using visual aids if needed?
Can you convert from decimals to binary?	Tetrabyte (TB) Electric signals Decimal Denary system	 <div data-bbox="1388 946 1827 1094" style="border: 1px solid black; padding: 5px;"> We will be programming to explore binary and how to work it out as decimals </div>	Can I convert numbers to binary using the division by two method?
Can I use binary on Purple Mash to create a game?	Electrical signals Receiver Activated Computer Memory space	<div data-bbox="840 1150 1319 1294" style="border: 1px solid black; padding: 5px;"> 2Code will support our understanding of how games work with binary. </div> <div data-bbox="683 1310 1391 1461" style="background-color: #e0e0ff; padding: 5px;"> 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. </div> <div data-bbox="1462 1098 1800 1442" style="text-align: center;">  <p>Convert Your Age To Binary - Example</p> </div>	Can I make use of a variable set to 0 or 1 to control game states?

