



<p>Which type of storage is typically faster and more portable, magnetic or solid-state ?</p>	<p>How does binary search narrow down the search after determining whether the search item is higher or lower than the middle item ?</p>	<p>What is the difference between an array and a record?</p>
<p>What is the 8-bit binary representation of the decimal number 64 ?</p>	<p>What is the role of the Control Unit in the CPU?</p>	<p>What is a nibble?</p>



<p>How does computational thinking relate to problem-solving in science?</p>	<p>What is the purpose of converting data into binary?</p>	<p>What is a Backup Policy?</p>
<p>What is the purpose of the user interface in an operating system?</p>	<p>What is social engineering?</p>	<p>What is the 8-bit binary representation of the decimal number 50?</p>



<p><i>Which type of storage is typically faster and more portable, magnetic or solid-state?</i></p> <p><b>Answer: Solid-state storage is typically faster and more portable.</b></p>	<p><i>How does binary search narrow down the search after determining whether the search item is higher or lower than the middle item?</i></p> <p><b>By focusing on either the first or second half of the data set.</b></p>	<p><i>What is the difference between an array and a record?</i></p> <p>An array holds data of the same data types and a record holds data of different data types</p>
<p>128 64 32 16 8 4 2 1</p> <p><i>ALWAYS write out the place values AND check your answer.</i></p> <p><i>What is the 8-bit binary representation of the decimal number 64?</i></p> <p><b>The 8-bit binary representation of the decimal number 64 is 01000000.</b></p>	<p><i>What is the role of the Control Unit in the CPU?</i></p> <p><b>Answer: To manage and monitor hardware, input and output signals, and synchronize the Fetch-Decode-Execute cycle.</b></p>	<p><i>What is a nibble?</i></p> <p><b>A nibble is a group of four bits.</b></p>



<p><i>How does computational thinking relate to problem-solving in science?</i></p> <p><b>Computational thinking is an approach to problem-solving used in all areas of science to effectively enable complex processes to be understood and to develop effective solutions.</b></p>	<p><i>What is the purpose of converting data into binary?</i></p> <p><b>Answer: The purpose of converting data into binary is to enable computers to process it.</b></p>	<p><i>What is a Backup Policy?</i></p> <p><b>- A Backup Policy includes rules and procedures for how to backup data, such as the time and frequency that data should be backed up, the media on which backups should be stored, and the location of the storage of backups (offsite).</b></p>
<p><i>What is the purpose of the user interface in an operating system?</i></p> <p><b>The purpose of the user interface in an operating system is to enable users to interact with the computer system.</b></p>	<p>What is social engineering?</p> <p>Social engineering uses psychological manipulation to trick people into revealing personal information or taking actions that compromise security.</p> <p>Techniques include phishing scams to scare people into clicking links to fake sites where they enter personal details or download files that contain malware.</p>	<p>128 64 32 16 8 4 2 1</p> <p>32 + 16 + 2 = 50</p> <p><i>What is the 8-bit binary representation of the decimal number 50?</i></p> <p><b>The 8-bit binary representation of the decimal number 50 is 00110010.</b></p>