

Depth of Knowledge				
Subject	Level 1	Level 2	Level 3	Level 4
	Mathematics	<p>Requires students to recall or observe facts, definitions, and terms. Includes simple one-step procedures. Includes computing simple algorithms (e.g., sum, quotient).</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>Recall or recognize a fact, term, or property.</li> <li>Represent in words, pictures, or symbols a math object or relationship</li> <li>Perform a routine procedure, such as measuring</li> <li>At higher grades, solve a quadratic equation or a system of two linear equations with two unknowns</li> </ul>	<p>Requires students to make decisions on how to approach a problem. Requires students to compare, classify, organize, estimate, or order data. Often involves procedures with two or more steps.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>Specify and explain relationships between facts, terms, properties, or operations</li> <li>Select procedure according to criteria and perform it</li> <li>Solve routine multiple-step problems</li> </ul>	<p>Requires reasoning, planning, or use of evidence to solve problem or algorithm. May involve activity with more than one possible answer. Requires conjecture or restructuring of problems.</p> <p>Involves drawing conclusions from observations, citing evidence and developing logical arguments for concepts. Uses concepts to solve non-routine problems.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>Formulate original problem, given situation</li> <li>Formulate mathematical model for complex situation</li> <li>Produce a sound and valid mathematical argument</li> <li>Devise an original proof</li> <li>Critique a mathematical argument</li> </ul>

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