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<td><strong>Revised Bloom’s Taxonomy</strong></td>
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| **Remember**  
Retrieval knowledge from long-term memory, recognize, recall, locate, identify | - Recall, observe, & recognize facts, principles, properties  
- Recall/identify conversions among representations or numbers (e.g., customary and metric measures) | - Specify and explain relationships (e.g., non-examples/examples; cause-effect)  
- Make and record observations  
- Explain steps followed  
- Summarize results or concepts  
- Make basic inferences or logical predictions from data/observations  
- Use models/diagrams to represent or explain mathematical concepts  
- Make and explain estimates | - Use concepts to solve non-routine problems  
- Explain, generalize, or connect ideas using supporting evidence  
- Make and justify conjectures  
- Explain thinking when more than one response is possible  
- Explain phenomena in terms of concepts | - Relate mathematical or scientific concepts to other content areas, other domains, or other concepts  
- Develop generalizations of the results obtained and the strategies used (from investigation or readings) and apply them to new problem situations |
| **Understand**  
Construct meaning, clarify, paraphrase, represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion (such as from examples given), predict, compare/contrast, match like ideas, explain, construct models | - Evaluate an expression  
- Locate points on a grid or number on number line  
- Solve a one-step problem  
- Represent math relationships in words, pictures, or symbols  
- Read, write, compare decimals in scientific notation | - Follow simple procedures (recipe-type directions)  
- Calculate, measure, apply a rule (e.g., rounding)  
- Apply algorithm or formula (e.g., area, perimeter)  
- Solve linear equations  
- Make conversions among representations or numbers, or within and between customary and metric measures | - Design investigation for a specific purpose or research question  
- Conduct a designed investigation  
- Use concepts to solve non-routine problems  
- Use & show reasoning, planning, and evidence  
- Translate between problem & symbolic notation when not a direct translation | - Select or devise approach among many alternatives to solve a problem  
- Conduct a project that specifies a problem, identifies solution paths, solves the problem, and reports results |
| **Apply**  
Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or use (apply) to an unfamiliar task | - Apply an expression  
- Locate points on a grid or number on number line  
- Solve a one-step problem  
- Represent math relationships in words, pictures, or symbols  
- Read, write, compare decimals in scientific notation | - Select a procedure according to criteria and perform it  
- Solve routine problem applying multiple concepts or decision points  
- Retrieve information from a table, graph, or figure and use it solve a problem requiring multiple steps  
- Translate between tables, graphs, words, and symbolic notations (e.g., graph data from a table)  
- Construct models given criteria | - Compare information within or across data sets or texts  
- Analyze and draw conclusions from data, citing evidence  
- Generalize a pattern  
- Interpret data from complex graph  
- Analyze similarities/differences between procedures or solutions | - Analyze multiple sources of evidence  
- Analyze complex/abstract themes  
- Gather, analyze, and evaluate information |
| **Analyze**  
Break into constituent parts, determine how parts relate, differentiate between relevant/irrelevant, distinguish, focus, select, organize, outline, find coherence, deconstruct | - Retrieve information from a table or graph to answer a question  
- Identify whether specific information is contained in graphic representations (e.g., table, graph, T-chart, diagram)  
- Identify a pattern/trend | - Categorize, classify materials, data, figures based on characteristics  
- Organize or order data  
- Compare/contrast figures or data  
- Select appropriate graph and organize & display data  
- Interpret data from a simple graph  
- Extend a pattern | - Cite evidence and develop a logical argument for concepts or solutions  
- Describe, compare, and contrast solution methods  
- Verify reasonableness of results | - Gather, analyze, & evaluate information to draw conclusions  
- Apply understanding in a novel way, provide argument or justification for the application |
| **Evaluate**  
Make judgments based on criteria, check, detect inconsistencies or fallacies, judge, critique | - Brainstorm ideas, concepts, or perspectives related to a topic  
- Generate conjectures or hypotheses based on observations or prior knowledge and experience | - Generate conjectures or hypotheses based on observations or prior knowledge and experience | - Synthesize information within one data set, source, or text  
- Formulate an original problem given a situation  
- Develop a scientific/mathematical model for a complex situation | - Synthesize information across multiple sources or texts  
- Design a mathematical model to inform and solve a practical or abstract situation |

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