

Problem Solving

Unit:

Grades:

Key: *PT = Practical Thinking, AT = Analytical Thinking, CT = Creative Thinking, RT = Research-Based Thinking*

<i>Abstraction – pulling out similarities to form an idea; given several examples, students determine a rule</i>	<i>Categorization – analyze information and sort it into meaningful categories</i>	<i>Drawing Conclusions/Justifying Solutions – draw conclusions based on data presented in many forms and viewpoints</i>
<i>Predicting Outcomes – make and test predictions</i>	<i>Observing and Experimenting – observe and record data and determine a hypothesis</i>	<i>Improving Solutions – given a solution, they are asked to improve it</i>
<i>Identifying Relevant/Irrelevant Information – given relevant and irrelevant information & determine which is which</i>	<i>Generating Ideas – generate idea lists, look for analogies</i>	<i>Creating and Designing – create or design a product, experiment, or problem to solve</i>

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