

Answers to Exercise 3.4

Identifying Different Types of Knowledge Utilization Goals

1. *Students will be able to select the best brushstroke for creating a composition that focuses on texture.*

This statement is an example of decision making. Given the specific focus of texture, students must use what they know about brushstrokes to select the one that would be the most suitable for creating a composition that fulfills the obligation of the objective.

2. *Students will be able to design an alternative mode of transportation with attention to energy efficiency.*

This statement is an example of problem solving. Students must design a mode of transportation under the constraint that it is energy efficient.

3. *Students will be able to discuss hypothetical conclusions to the Vietnam War if President Kennedy had not been assassinated.*

This statement is an example of investigating. Students are asked to dissect a particular time period and, based on facts, speculations, and opinions of others, come to a hypothetical conclusion.

4. *Students will be able to generate and test ideas about how to win a tennis game.*

This statement is an example of experimenting. Tennis is a physical activity that has specific rules and allows students to make direct observations. Once they collect enough data, they can make an experimental prediction and study the results.

5. *Students will be able to test what will happen to water if the surrounding temperature changes.*

This statement is an example of experimenting. Water changing its state of matter is a physical phenomenon and can be directly observed.

6. *Students will be able to select the most suitable format for a persuasive essay based on specific criteria.*

This statement is an example of decision making. Students must determine which format will best support a persuasive essay using specific criteria to make their decisions.

7. *Students will be able to research and take a position on a current political issue.*

This statement is an example of investigating. Because there is no absolutely correct or incorrect position to take on a political issue, students can use only

actions, opinions, and events from which to gather information. They must develop a logical argument as opposed to an argument based on empirical evidence.

8. *Students will be able to determine the probability of a specific outcome given a set of conditions.*

This statement is an example of problem solving. Because specified conditions exist, students must overcome a hurdle before reaching the right answer—they must solve a problem.

9. *Students will be able to develop a strategy for collecting data schoolwide given a limited period of time.*

This statement is an example of problem solving. The parameters of area and time present the students not only with a task, but also with an obstacle to overcome in order to accomplish that task.

10. *Students will be able to research and make a presentation on the life of an influential American leader.*

This statement is an example of investigating. In this case, students are examining the life of a person, not observing a physical activity or event.