Name: _____ Period: _____ Date: _____

Writing Up an Investigation Bell Work – Teacher Edition

Multiple Choice – Select the best answer

A student wanted to investigate how changing the temperature of an acid affected the time it took to dissolve small strips of magnesium.

1. Which of the following is a correct hypothesis for this investigation?
   a) To investigate the how increasing the acid temperature affects the time it takes for magnesium strips to dissolve.
   b) As the temperature of the acid increases, the time it takes for the magnesium strips to dissolve will decrease.
   c) How does temperature of the acid affect the time it takes for magnesium strips to dissolve?
   d) The reaction time will be affected by the acid temperature.

2. What is the dependent variable for the student's investigation?
   a) The temperature of the acid.
   b) The amount of magnesium used.
   c) Seconds
   d) The time taken for the strips of magnesium to dissolve.

3. What is the independent variable for the student's investigation?
   a) The temperature of the acid.
   b) Degrees Celsius
   c) How long it takes for the magnesium to dissolve.
   d) How to change the temperature.

4. Which of the following is not a controlled variable for this investigation?
   a) Using the same type of acid in each test.
   b) Using the same volume of acid in each test.
   c) Using the same temperature of acid in each test.
   d) Using the same size piece of magnesium.

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ANSWERS

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