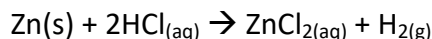


Measuring Reaction Rates Exit Quiz – Student Edition

The reaction between zinc metal and hydrochloric acid is represented by the following equation:



Select the best answer for each question based on this reaction.

1. The dependent variable for an investigation using this reaction would be...
 - a) The amount of hydrogen gas produced
 - b) The concentration of the acid
 - c) The surface area of the zinc metal
 - d) The temperature of the acid
2. Which of the following would be an appropriate independent variable for this reaction?
 - a) The change in mass of zinc
 - b) The rate of hydrogen gas produced
 - c) The concentration of hydrochloric acid
 - d) The time taken for the zinc to disappear
3. Which of the following is an example of a controlled variable for this reaction?
 - a) The time taken for the zinc to disappear
 - b) The volume of liquid used
 - c) The amount of hydrogen gas produced
 - d) The amount of zinc chloride produced