

Scientific Method Exit Quiz – Student Edition

Circle the **best** answer for each question.

1. What skill is a scientist using when she listens to the sounds that whales make?
 - A. Interpreting data
 - B. Making hypothesis
 - C. Making observations
 - D. Drawing conclusions
2. Which question would be answerable through a scientific experiment?
 - A. How many giraffes live in Africa?
 - B. Who made the first microscope?
 - C. How long ago did dinosaurs live on Earth?
 - D. Does the amount of salt in water affect the temperature at which it boils?
3. How many variables should be tested at a time to make the experiment a fair one?
 - A. one
 - B. two
 - C. three
 - D. as many as possible
4. A scientist hypothesizes the temperature at which an alligator's egg is incubated will determine whether the alligator will be male or female. What is the independent variable?
 - A. the incubator
 - B. the temperature
 - C. the gender of the alligator
 - D. the location of the incubation
5. What is the best thing to do if the hypothesis formulated does not answer the scientific problem?
 - A. Scrap the hypothesis and restate the problem
 - B. Restate the problem then retain the hypothesis
 - C. Redo the experiment then restate the hypothesis
 - D. Restate the hypothesis then finalize the results of the experiment