

# Scientific Inquiry

## Link Scientific Inquiry Reading

**Directions:** On each line, write the term from the word bank that correctly replaces the underlined words.

NOTE: You might need to change a term to its plural form.

critical thinking

hypothesis

inference

observation

prediction

science

scientific law

scientific theory

technology

- \_\_\_\_\_ 1. the investigation and exploration of natural events and of the new information that results from those investigations
- \_\_\_\_\_ 2. Rules that describe repeatable patterns in nature work under specific conditions in nature.
- \_\_\_\_\_ 3. Using wind tunnels to make bicycles more aerodynamic is an example of the practical use of scientific knowledge.
- \_\_\_\_\_ 4. A(n) explanation of observations based on knowledge from many observations and investigations will never become a law.
- \_\_\_\_\_ 5. Rob saw an advertisement for a household tool that would chop, slice, cook, clean, and sew. Using a comparison of what he already knew with the information in the advertisement, he knew this product was too good to be true.
- \_\_\_\_\_ 6. Through the use of more than one of her senses and noting what occurred, Anika was able to think of questions she could use to begin a scientific investigation.
- \_\_\_\_\_ 7. A conclusion is a summary of the information gained from testing the possible explanation for an observation.
- \_\_\_\_\_ 8. After making an observation and a(n) logical explanation drawn from prior knowledge, the next step in a scientific investigation is to develop a hypothesis.
- \_\_\_\_\_ 9. Scientists make statements of what will happen next in a sequence of events based on information they think they will find when they test their hypotheses.