

Planning an Investigation

Exit Quiz – Student Edition

Decide whether the statement is true or false. Write the answer on the blank.

- _____ 1. The scientific method is a process of solving problems in a systematic manner.
- _____ 2. Forming a hypothesis is the first step of the scientific method.
- _____ 3. Experimenting is a way to test if the hypothesis answers the problem.
- _____ 4. In order for a hypothesis to be testable, scientists need to be able to carry out investigations that will either support or disprove it.
- _____ 5. The experimental group is the group that is left alone during the experiment.
- _____ 6. A variable is any factor that affects the scientific investigation.
- _____ 7. An independent variable is a factor that is changed in an experiment.
- _____ 8. A controlled variable responds to the independent variable.
- _____ 9. A hypothesis is a tentative answer to problem.
- _____ 10. A good hypothesis is based on fallacies.