

## Planning an Investigation Exit Quiz – Teacher 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.

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- true** 1. The scientific method is a process of solving problems in a systematic manner.
- false** 2. Forming a hypothesis is the first step of the scientific method.
- true** 3. Experimenting is a way to test if the hypothesis answers the problem.
- true** 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.
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- true** 7. An independent variable is a factor that is changed in an experiment.
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- true** 9. A hypothesis is a tentative answer to problem.
- false** 10. A good hypothesis is based on fallacies.