Name: _____ Period: _____ Date: _____

Designing an Experiment 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 investigators 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 investigators that will either support or disprove it.

false 5. The experimental group is the group that is left alone during the experiment.

true 6. A variable is any factor that affects the scientific investigation.

true 7. An independent variable is a factor that is changed in an experiment.

false 8. A controlled variable responds to the independent variable.

true 9. A hypothesis is a tentative answer to problem.

false 10. A good hypothesis is based on fallacies.

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