

Name _____

Science _____

Date _____

SM & G Test REVIEW

1. The one variable changed on purpose in an experiment is

1. _____

2. What is the best step to start with using the scientific method?

2. _____

You want to test a new drug that supposedly prevents sneezing in people allergic to grass.

3. What is the independent variable?

3. _____

4. What is the dependent variable?

4. _____

5. List 3 items that need to be constant.

5. _____

An entomologist (bug scientist) wants to determine if temperature changes how many times a cricket chirps.

6. What is the independent variable?

6. _____

7. What is the dependent variable?

7. _____



8. List 2 observations from the picture above.

8. _____

9. List 2 inferences from the same picture.

9. _____

Andrew and Alec wanted to test which genre of music helps them concentrate longer on studying their favorite subject, science.

10. The independent variable is

10. _____

11. The dependent variable is

11. _____

12. List one source of error that may affect the results of this experiment.

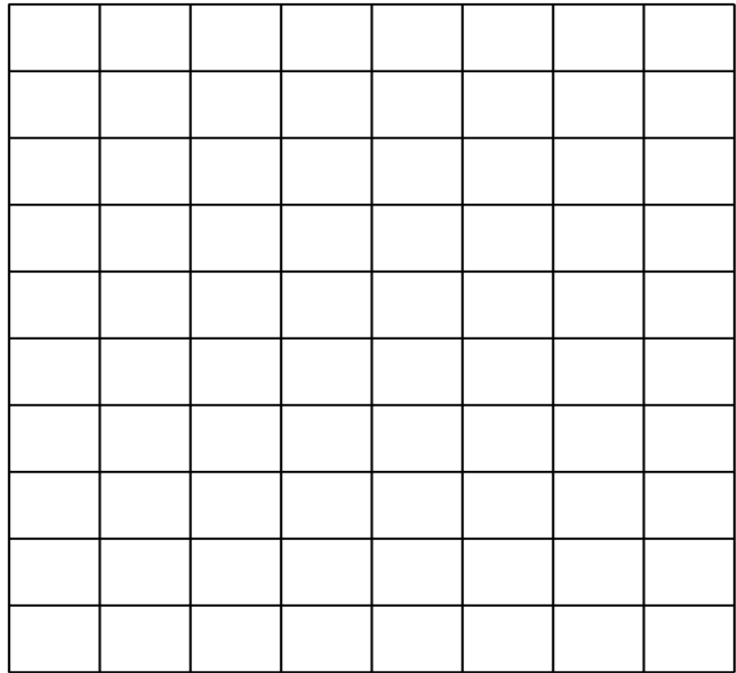
12. _____

Graphing Practice

Age of the tree in years	Average thickness of the annual rings in cm. Forest A	Average thickness of the annual rings in cm. Forest B
10	2.0	2.2
20	2.2	2.5
30	3.5	3.6
40	3.0	3.8
50	4.5	4.0
60	4.3	4.5

A. The thickness of the annual rings indicates what type of environment was occurring at the time of its development. A thin ring usually indicates a lack of water, forest fires, or a major insect infestation. A thick ring indicates just the opposite.

B. Make a line graph of the data.



C. What is the dependent variable?

C. _____

D. What is the independent variable?

D. _____

E. Based on this data, what can you conclude about Forest A and Forest B?

**** Review 4 parts to a table/graph & logical sequence of scientific method****