

Name: _____ Date: _____ Period: _____

Scientific Method Worksheet

Answer the following questions.

1. Put the following steps in order, please number 1-6.

_____ Hypothesis
_____ Draw Conclusion
_____ Experiment
_____ Ask a Question
_____ Analyze data
_____ Collect Observations

2. Put the following steps of scientific inquiry in order, please number 1-3.

_____ Make an observation
_____ Ask a question
_____ Form a hypothesis

3. Is the following statement a fact, opinion or theory? Why?

Scrambled eggs are better for breakfast than cereal. I can stay full longer if I eat eggs.

4. List if each of the following data is qualitative or quantitative:

a. _____ Green
b. _____ 5.7 grams
c. _____ Large
d. _____ 120 lbs

5. Determine if each statement is true or false about forming a hypothesis:

- _____ a. It must be long.
- _____ b. It is an educated guess.
- _____ c. It is in if...then format.
- _____ d. It must be testable.
- _____ e. It must start with I think.

6. Explain what it means to have your hypothesis “refuted”.

7. Mrs. Everhart developed the theory that all bulldogs are great pets. After all her bulldog Meatball is a wonderful dog! Is this statement a scientific theory? Why or why not.

8. Define scientific method.

9. Define science.

10. Define experiment.

11. Complete the following sentence: All scientific knowledge is based on _____.

12. Which of the following is an example of a good scientific question? **Why?**

- a. How big is an ant?
- b. Where do rabbits live?
- c. Which make better pets, fish or dogs?
- d. What will happen to the freezing point of water if salt is added?

13. Can you think of two ways to answer a scientific question?

14. What three things must happen in order for a theory to be formed?

15. List the three must haves of a hypothesis.

16. Why do we perform an experiment?

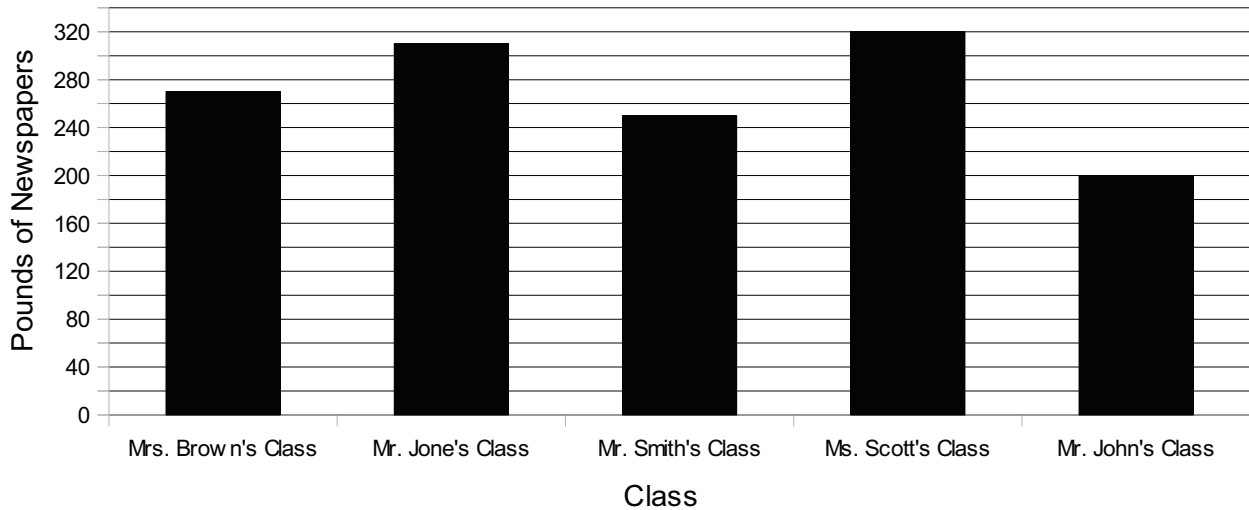
17. Create a hypothesis for the following problem: You are planting a garden. Create a hypothesis about how water will affect plant growth.

18. What questions do you have about the scientific method unit? Are you confused about anything?

Your name: _____

Reading a Bar Graph

Pounds of Newspapers Recycled
by Abraham Lincoln Elementary School Students



1. How many pounds of newspaper did Mrs. Brown's class recycle? 1. _____
2. How many pounds of newspaper did Mr. Jone's class recycle? 2. _____
3. How many more pounds did Ms. Scott's class recycle than Mr. John's class? Show your work in the space below. 3. _____
4. Are the numbers on the scale counting by 20s, 30s, 40s, or 50s? 4. _____
5. Do the horizontal lines show increments of 20s, 30s, 40s, or 50s? 5. _____
6. Which class recycled the most newspapers? 6. _____
7. How many pounds of newspapers were recycled in all? Show your work in the space below. 7. _____