



6TH SCIENCE

UNIT 1: SCIENTIFIC METHOD

ACTIVITY

Name : _____

Date : _____

Scientific Method Unit Test Review Packet #1

Part A: Classify the following statements as Qualitative Observations, Quantitative Observations, or Inferences.

- 1) The backyard of Erin's new apartment was filled with large, unruly weeds and rusting tools.

- 2) Jasmine eyes filled with glee when she unwrapped the sparkling green hula hoop.

- 3) The plastic bottle held four liters of laundry detergent. _____
- 4) You must walk up three flights of stairs to get to RPC. _____
- 5) Jeffrey was probably tired because he was up late studying last night.

- 6) The sky was filled with sinister thunder clouds. _____
- 7) The stadium was packed with 40,000 Patriots fans. _____
- 8) The students are probably sweaty because they just came from gym class.

Part B: Short Answer Questions (ANSWER IN COMPLETE SENTENCES!)

1. Which of the following questions is the best scientific method question? Circle the correct response.
 - a. Who runs the fastest?
 - b. Do people with short legs run slowly?
 - c. Do people with long legs run faster than people with short legs?
2. Why do you think your answer to #1 was the best scientific method question?



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3. Write a hypothesis for this question using your prior knowledge. Remember your hypothesis must include all three parts!

4. Write an example of a qualitative observation. (complete sentence)

5. Write an example of a quantitative observation. (complete sentence)

6. Write an example of an inference. (complete sentence)

7. What is a control? How many should each experiment have?

8. What is a variable? How many should each experiment have?



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9. Why should you have only one variable and as many controls as possible in an experiment?

Part C: Sample Experiment

Will vitamins make a kitten grow faster?

a) What is your hypothesis for this experiment? (make it a **STRONG** hypothesis)



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What is the variable in this experiment?

b) What are the most important controls needed in this experiment? (Be Specific!)

1. _____

2. _____

3. _____

4. _____

5. _____

Part D: Using Mnemonics

1. Write the sentence you will use to help you remember the seven steps of the scientific method.

2. List the seven steps of the scientific method.

1. _____

2. _____

3. _____



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4. _____

5. _____

6. _____

7. _____