



1. What are the seven steps of the scientific method and briefly highlight each.

P
H
M
P
D
S
C

2. When constructing a table or graph, *what should be included in the title* of the table and graph?

3. When constructing a graph, what variables should be placed on the x-axis and the y-axis?

4. Briefly describe each characteristic of life and how it pertains to living things.

- a. Cells:
- b. Organization:
- c. Metabolism:
- d. Homeostasis:
- e. Growth:
- f. Reproduction:
- g. Genetic Code:
- h. Response:
- i. Change:



5. Look at an example of these two common observations and develop an inference for each.

Observation: smoke coming out of a barbeque

Inference: _____

Observation: police car driving with sirens on

Inference: _____

6. Determine which part of the passage is observation and which part is an inference.

A mother woke up in the morning and noticed her children were uncovered in their beds. She thought they must be cold and covered them with a blanket.

Observation: _____

Inference: _____

7. Explain the difference between an *independent variable* and *dependent variable*.

8. Look at your scientific method worksheet (Osteoporosis) and make sure you can set up an experiment with:

- a. an experimental group
- b. a control group
- c. independent variable
- d. dependent variable

9. Measure the following items and convert them to the units identified.

- a. Width of refrigerator _____ cm _____ m _____ mm
- b. Length of pinky finger _____ mm _____ cm _____ m
- c. Height of dresser _____ cm _____ m _____ km
- d. Width of pen/pencil _____ cm _____ dm _____ hm

10. Review the reference sheet regarding making tables and graphs.

11. Convert the following measurements:

- a. 23.875 m = _____ mm _____ cm _____ hm _____ km
- b. .0001 km = _____ m _____ dm _____ cm _____ mm
- c. 15.2 cm = _____ m _____ dkm _____ hm _____ km

12. Make sure you can look at a series of pictures and identify what is an observation and an inference.



Observation #1: _____

Observation #2: _____

Inference #1: _____

Inference #2: _____