Name: Period: ____ Date: _____ Unit 1 Concept Map Week# organized way of providing an explanation about Method is an 1.The the natural world First, Description made by scientists using one of the senses make which can be 2. 5. Description that Then, involves scientists make 7. logical interpretations of that are 6. Which 8. Not be ____ or ____ lead to Not ask for an Testable Questions | that must -Require measurements Be answered through observation or Then, variable or what you choose to change scientists conduct a Controlled Experiment | with **▶**10. variable or what you measure Control which is for 11. 12. graph: Then compares categories scientists Data tables displayed in Collect and Analyze Data 13. graph: Graphs 3 types for continuous independent variable All Pie graph: shows must parts of a whole have And : that includes both variables 14. finally 19. Draw 15. Axes: the independent variable on the -axis and the dependent variable on the 16. : that include like meters or seconds 20. Supported by 17. ____: when appropriate 18. _____: with even intervals and appropriate spacing

Unit 1 Assessment- Practice Questions

Directions: Identify the following statements as qualitative, quantitative, or inference.

- 1. The turtles in the pond like to sit in the sun.
- 2. The six turtles in the pond are in the sun.
- 3. The turtles in the pond sit quietly in the sun.

Directions: Use the data table to answer questions 4-7.

Organism	Column A	Column B	Column C		
Goat	4 limbs	Over 2 meters in length	white fur		
Chicken	2 limbs	Under 2 meters in length	white, black, and brown feathers		
Donkey	4 limbs Over 2 meters in length		brown fur		
Rooster	2 limbs	Under 2 meters in length	black, red, and white feathers		

- 4. Which column(s) represent qualitative data?
- 5. Which column(s) represent quantitative data?
- 6. Which of the following statements is an inference based on the table?
 - a. The goat and donkey are larger in length than the chicken and rooster.
 - b. The donkeys were the easiest organisms to collect data on.
 - c. The goats and chickens can be white in color.
 - d. The rooster is the only organism with a red body.
- 7. From the data table, a scientists wants to conduct an experiment on a chicken. Which of the following is a testable question?
 - a. Do chickens prefer to be black or brown?
 - b. Why do chickens have 2 limbs?
 - c. How does the color of the feathers affect the chickens ability to avoid predators?
 - d. Can the size of the chicken affect the speed at which they can run?

Directions: Use the data table and answer questions 8-11.

An experiment was conducted to determine the effect of fertilizer on the growth of plants. Scientists used fertilizer on Location A, but did not use fertilizer on Location B.

	Initial (cm)	Day 1 (cm)	Day 2 (cm)	Day 3 (cm)	Day 4 (cm)	Day 5 (cm)
Location A	5	5.6	5. 9	6.3	6. 5	6.8
Location B	5	5.8	6.1	6.2	6.8	7.9

- 8. What is the independent variable?
- 9. What is the dependent variable?
- 10. What is the purpose of Location A?
- 11. What type of graph is most appropriate for the data?