**Assignment: Hypothesis or Theory?**

**Due: Tue. September 18th (4th and 5th period)/Wed. September 19th (6th period)**

***Complete each statement below, using the term hypothesis or theory.***

1. A scientist observes that penguins move efficiently though water. The scientist makes a

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that if a boat is designed with a propulsion system that moves like a

penguin, then the boat will be more efficient than traditional boats.

2. Scientists have developed a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to explain the characteristics and behavior of light

that is based on work performed by many scientists.

3. A student notices that sound travels quickly underwater. She develops a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that

sound will move more quickly through water than it moves through air.

4. Scientists use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to interpret the results of investigations about the structure and

behavior of atoms.

***For each description, circle the appropriate term.***

5. Often used as the basis for a single experiment. hypothesis theory neither

6. A proven scientific fact. hypothesis theory neither

7. A prediction about the outcome of an experiment. hypothesis theory neither

8. Developed over a long period of time using the work of many scientists.

hypothesis theory neither

9. A broad explanation that applies to a wide range of results. hypothesis theory neither

10. Repeatedly verified by the work of many scientists. hypothesis theory neither