

Name: _____ Date: _____ Period: _____

Hypothesis, Law, or Theory?
You decide.

From your reading you have distinguished the difference between a hypothesis, law, and theory. Read the following statements and answer if you believe they are a hypothesis (H), law (L), or a theory (T). Be sure to highlight or circle any key words that may help you in your determination.

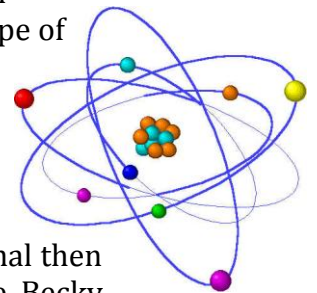
1. _____ Over time many excavations were conducted at the site of Pompeii. The material found in Pompeii matches the material on a volcano called Vesuvius. The material came from the eruption of the volcano.



2. _____ Last night, freezing rain accumulated in the Hanover, PA area, giving a thick coating of ice on the ground 2.5 cm deep. The ice formation on the roads and surrounding areas will cause local schools to cancel school for the remainder of the day.

3. _____ In 1766 a scientist by the name of John Dalton developed an explanation of how atoms combine. Using the results of many different experiments on gases, he explained that each gas atom had its own characteristics that was different than any other gas atom and that two atoms of the same element are identical to each other.

4. _____ The idea of diffusion is the movement of ANY molecule from an area of high concentration to an area of low concentration. Based on significant data that has been collected, diffusion occurs with any type of molecule and can be tested over and over and over again and again.



5. _____ Becky thought that if she studied the night before her final then she would at least be able to earn a B and pass her Chemistry course. Becky had studied the night before for all of her tests prior to the final and received B's. To Becky's disgust, she received a D+ on her final.



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6. _____ Based on research and prior experimentation, it is now known that the femur is the strongest bone in the human body.



7. _____ For many years, it was stated that Jupiter had 16 moons. However, recent studies predict that there are 23 new moons in addition to the 16 moons already known. Further studying has to be conducted by the International Astronomical Union (IAU) to support the predication.



8. _____ Chopped white onions release propanethiol S-oxide, which is an irritant to the eyes.

9. _____ An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force.

