

1.1 Review Questions

1. What would hit the ground first if dropped at the same time on the moon, a 3-ton car or a piece of paper?
2. How is the scientific method different than the type of investigating done previous to it?
3. What is different between a theory and a law?
4. Tell whether the following statements are theories or laws. Also tell why.
 - a. Humans and apes evolved from the same ancestor.
 - b. The earth revolves around the sun.
 - c. The atom is the smallest unit of an element that still has all of that element's properties.
 - d. Energy cannot be created nor destroyed, it can only be converted from one form to another.
5. Why must lab reports be written?
6. When a scientist repeats a lab done by someone else, is he trying to prove a hypothesis correct? Why or why not?
7. What is different between a hypothesis and a theory?
8. State whether each of the following statements is valid or not. Also explain why.
 - a. Jim has a theory as to why people always lose socks in the dryer.
 - b. There is so much evidence these days supporting the Big Bang Theory (no, not the TV show) that it will eventually become a law.