

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Theory and Law

1. Germs cause disease in living organisms.



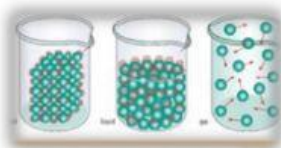
2. Gravity attracts every object in the universe to every other object. The attractive force can be calculated using the following formula:  $F = G \frac{m_1 m_2}{r^2}$



3. Force is equal to mass multiplied by acceleration.



4. There are no attractive or repulsive forces between gas molecules.



5. All living things are made of microscopic cells.



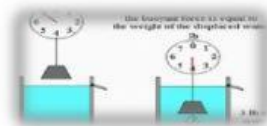
6. For every action, there is an equal and opposite reaction.



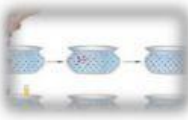
7. Light is responsible for color.



8. The upward buoyant force that is exerted on a body immersed in a fluid, whether fully or partially submerged, is equal to the weight of the fluid that the body displaces.



9. Heat always flows from hot objects to cooler ones, not in the opposite direction. This holds true as long as there is no external work done on the system.



10. Energy is neither created nor destroyed and that can be mathematically shown.

