

### Guided Reading Chapter 10 Section 3

1. What is a fluid?
2. \_\_\_\_\_ is the amount of force in a certain area.
3. What is the difference between pounds per square inch (psi) and pascals?
4. Pressure is caused by \_\_\_\_\_ between molecules.  
a) collisions                      b) density                      c) bonds
5. Which of Newton's three laws plays a part in creating pressure on objects, and why?
6. Bernoulli's Principle relates the three properties height, \_\_\_\_\_, and \_\_\_\_\_.
7. In an important application of Bernoulli's Principle, airflow above a wing on a plane must flow \_\_\_\_\_ than airflow below the wing for the plane to have the lift force that supports the plane.
8. Which particle has greater viscosity; corn oil or water? Why?
9. Viscosity is the property of fluids that causes \_\_\_\_\_.  
a) pressure                      b) velocity                      c) friction
10. As the temperature of a liquid is increased, the viscosity \_\_\_\_\_.  
a) increases                      b) decreases                      c) remains the same