**8th Force & Motion Study Guide**

**1. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a push or a pull.**

**2. It takes more force to move objects with more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**3. Which statement is NOT true?**   
A. Gravity is a force.   
B. Gravity pulls things together.   
C. Everything with mass has gravity.   
D. Objects with less mass have a stronger force of gravity.

**4. Friction occurs when things \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**5. Balanced forces are forces that are \_\_\_\_\_\_\_.**   
A. equal in size and move in the same direction   
B. equal in size and move in opposite directions   
C. different in size and move in the same direction   
D. different in size and move in opposite directions

**6. What changes when the force of gravity pulling on an object changes?**   
A. the object’s size   
B. the object’s mass   
C. the object’s weight   
D. the object’s speed

**7. Newton’s Laws describe how things \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forces change the motion of an object.**   
A. Balanced  
B. Unbalanced

**9. Why would an empty truck accelerate more quickly than a truck carrying logs?**   
A. It has more power.   
B. It has more speed.   
C. It has less mass.   
D. It has less inertia.

**10. Momentum depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**