

**Science: Motion**  
**Chapter 11, Lesson 2: Changes in Motion**

Name \_\_\_\_\_ Date \_\_\_\_\_

1. What is Newton's second law of motion? What is the formula? page 606
  
2. Newton's first law shows that a net \_\_\_\_\_ is needed in page 607  
order for an object to \_\_\_\_\_. Newton's second law shows  
how much \_\_\_\_\_ this net force will cause.
  
3. What is the definition of momentum? page 607
  
4. What is Newton's third law of motion? page 608
  
5. Mass is the amount of \_\_\_\_\_ in an object, and weight is the page 608  
force of \_\_\_\_\_ pulling down on an object.
  
6. The \_\_\_\_\_ between objects also affects the force of page 608  
gravity. As the distance between objects increases, the force of  
the gravity \_\_\_\_\_.
  
7. According to Newton's law of universal gravitation the planets, the stars, page 609  
and all particles of \_\_\_\_\_ exert gravitational force.