Chapter 7 Concept Review

**Physics**

**Directions:** Answer the following questions using your notes and textbook

1. Force is part of a mutual action– an __________________
2. Always a ___________ of forces– led Newton to his third law (law of ____________ and ______________)
3. Whenever one object exerts a _____________ on a second object, the second object exerts
   an __________ and _________________ force on the first object
4. One force called __________ force and the other is called the ________________ force
5. They are equal in _______________ and opposite in ________________
6. “To every _____________ there is always an equal opposing ________________”
7. Forces include _____________ and ________-_____________ forces
8. Newton’s second law states that _________________ is not only proportional to net
   force, but also inversely proportional to ___________.
9. If action and reaction forces are ________________ to a system, they cancel each other
   and produce no acceleration of the system
10. Action and reaction forces do not cancel each other when either is _________________ to
    the system being considered.
11. Newton’s Second Law: \[ a = \]
12. Newton’s Second Law: \[ F = \]
13. Newton’s Second Law: \[ m = \]
14. Force on cannonball. \[ F = \]
15. Force on cannon. \[ F = \]