**Unit 4**

**Physical Science: Forces and Motion**

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| Standard 7.P.1 | Academic Vocabulary |
| 7.P.1.1  Explain how the motion of an object can be described by its position, direction of motion, and speed with respect to some other object.  7.P.1.3  Illustrate the motion of an object using a graph to show a change in position over a period of time.  7.P.1.4  Interpret distance versus time graphs for constant speed and variable motion.  7.P.1.2  Explain the effects of balanced and unbalanced forces acting on an object (including friction, gravity and magnets).  -Point of Reference  -Calculate Speed  -Graphing Motion  -Balanced/Unbalanced Motion | Force  Motion  Speed  balanced/unbalanced forces  Net forces  Reference point  Friction  Opposes  Newton’s Laws  Gravitational force  Mass  Distance  Inertia  Velocity  Graphing:, distance vs time, constant speed vs motion,  Direction: North, South, East, West, up, and down |