**Unit 4**

**Physical Science: Forces and Motion**

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| Standard 7.P.1 | Academic Vocabulary |
| 7.P.1.1Explain 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.1.3Illustrate the motion of an object using a graph to show a change in position over a period of time.7.P.1.4Interpret distance versus time graphs for constant speed and variable motion.7.P.1.2Explain 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 | ForceMotionSpeedbalanced/unbalanced forcesNet forcesReference pointFrictionOpposesNewton’s LawsGravitational forceMassDistanceInertiaVelocityGraphing:, distance vs time, constant speed vs motion,Direction: North, South, East, West, up, and down |