

## **Assessed Understandings** **6<sup>th</sup> Grade Force & Motion**

1. Motion can be described by an object's speed and direction of travel. An object's average speed can be calculated from knowledge of distance and time.
2. Balanced forces do not cause a change in the motion of an object; unbalanced forces do cause a change in the motion of an object. The change in the motion may be an increase in speed, a decrease in speed, and/or a change in direction.
3. Graphical displays can be used to determine the impact of a force or a combination of several forces on the motion (or change in motion) of an object.
4. Gravity is a force that acts between masses over large distances and can influence the motion (or change in motion) of an object. Gravity acts vertically downward on the local scale and radially inward on a global scale.
5. Forces that influence the motion (or change in motion) of objects can be identified and combined to determine the overall effect of these forces.