Content Standards

The following California Content Standards form the basis for USS Midway Museum’s Grade 8 Science Program, “Onboard With Newton’s Laws”:

California Science Content Standards: Focus on Physical Sciences:

Forces

2. Unbalanced forces cause changes in velocity. As a basis for understanding this concept:
   a. Students know a force has both direction and magnitude.
   b. Students know when an object is subject to two or more forces at once, the result is the cumulative effect of all the forces.
   c. Students know when the forces on an object are balanced; the motion of the object does not change.
   d. Students know that when the forces on an object are unbalanced, the object will change its velocity (that is, it will speed up, slow down, or change direction).
   e. Students know the greater the mass of an object, the more force is needed to achieve the same rate of change in motion.