Third Grade Interconnections
Unit II
Cause & Effect: Finding out about Force

Enduring Understanding:

A force applied to an object will affect its motion. Gravity is a force that pulls objects toward the Earth.

Essential Questions

- *How does the strength of a force affect its impact on an object?*
- *How have humans applied the concept of **changes in force and motion** to their inventions?*
- *In what ways does gravity affect the motion of an object?*
- *How does gravity affect me?*

Core Curriculum Concepts/Skills: interactions, relationships, relative motion, cause and effect

Core Standards

Science

Standard III: Students will understand the relationship between the force applied to an object and resulting motion of the object.

Objective 1: Demonstrate how forces cause change in speed or direction of objects.
Objective 2: Demonstrate that the greater the force applied to an object, the greater the change in speed or direction of the object.

Standard IV: Students will understand that objects near Earth are pulled toward Earth by gravity.

Objective 1: Demonstrate that gravity is a force.
Objective 2: Describe the effects of gravity on the motion of an object.

Science language students should use: distance, force, gravity, weight, motion, speed, direction, simple machine