

## Unifying Theme: Human Body

### Essential Standards and Clarifying Objectives

#### **3.L.1 Understand human body systems and how they are essential for life: protection, movement and support.**

**3.L.1.1** Compare the different functions of the skeletal and muscular systems.

**3.L.1.2** Explain why skin is necessary for protection and for the body to remain healthy.

#### **3.P.1 Understand motion and factors that affect motion.**

**3.P.1.1** Infer changes in speed or direction resulting from forces acting on an object.

**3.P.1.2** Compare the relative speeds (faster or slower) of objects that travel the same distance in different amounts of time.

**3.P.1.3** Explain the effect of Earth's gravity on the motion of any object on or near the Earth.

### Unpacking

What does this clarifying objective mean a child will know, understand and be able to do?

**3.L.1.1** Students know that the muscles and the skeleton provide a structural framework that protects and supports mobility of the human body. Students know that the skeletal system is comprised of bone. Bone is a hard material that provides support and protection of the body's soft tissues. Students know that muscles are formed from tissues that contract and relax, producing motion. Muscles are attached to bones and initiate and regulate movement. Muscles are also found in internal organs that are responsible for essential life processes (heart, stomach, intestines).

**3.L.1.2** Students know that the skin is the largest organ of the human body, that it covers and protects the human body from external conditions and forces. Students know that the skin contains nerve receptors that provide information about external conditions.

**3.P.1.1** Students know that when a force acts on an object it will result in a change of speed and/or direction.

**3.P.1.2** Students know that speed can vary. Students know that varying the speed of a moving object will affect the time it takes for the object to travel a particular distance.

**3.P.1.3** Students know that the Earth 'pulls' on all objects on or near the Earth without touching those objects.