



*Kids in Motion: a Healthy Start*  
*Human Organ Systems*  
**Curriculum Expectations for Grade 5**

*Science and Technology*

*Understanding Life Systems: Human Organ Systems*

**Overall Expectations:**

- Investigate the structure and function of the major organs of various human body systems;
- Demonstrate an understanding of the structure and function of human body systems and interactions within and between systems.

**Specific Expectations:**

*Developing investigation and Communication Skills*

- **2.2** use scientific inquiry/experimentation skills (see page 12) to investigate changes in body systems (e.g., heart rate, breathing, body temperature) as a result of physical activity (e.g., exercise, resting, eating)
- **2.4** use appropriate science and technology vocabulary, including circulation, respiration, digestion, organs, and nutrients, in oral and written communication
- **2.5** use a variety of forms (e.g., oral, written, graphic, multimedia) to communicate with different audiences and for a variety of purposes (e.g., create labeled charts or graphs to show changes in heart rate and breathing as a result of exercising)

*Understanding Basic Concepts*

- **3.1** identify major systems in the human body (e.g., musculoskeletal system, digestive system, nervous system, circulatory system) and describe their roles and interrelationships
- **3.2** describe the basic structure and function of major organs in the respiratory, circulatory, and digestive systems (e.g., we have two lungs; each one is about 25–30 cm long and cone shaped; the right lung is slightly bigger because it has three lobes and the left lung has only two; our lungs are responsible for gas exchanges)
- **3.3** identify interrelationships between body systems (e.g., the respiratory system provides oxygen and removes carbon dioxide for the circulatory system)
- **3.4** identify common diseases and the organs and/or body systems that they affect (e.g., epilepsy affects the brain [central nervous system]; appendicitis affects the appendix [digestive system]; asthma and emphysema affect the lungs [respiratory system])