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# Body Systems in Motion

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Reviewed 2022

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**Format:** Wonder Workshop

**Grades:** 4<sup>th</sup> – 8<sup>th</sup>

**Length:** 45 minutes

**General Description:** Groups work together to learn about human body systems, complete physical challenges, and unlock body system components to activate their avatar, Simone.

**Big Idea:** Human body systems carry out important functions that help us survive and thrive.

**Key Concepts:**

- Humans have different body systems that carry out specific functions which help us stay alive.
- One function of the circulatory system is to carry carbon dioxide (CO<sub>2</sub>) to the lungs and oxygen (O<sub>2</sub>) to the cells for cellular respiration.
- One function of the musculoskeletal system is to make your body move.
- One function of the nervous system is to detect and help the body respond to external stimuli.

**Colorado Academic Standards:**

- **SC.4.2.1** Organisms have both internal and external structures that serve various functions.
- **SC.MS.2.1** All living things are made up of cells, which is the smallest unit that can be said to be alive.
- **SC.MS.2.4** Each sense receptor responds to different inputs (electromagnetic, mechanical, chemical), transmitting them as signals that travel along nerve cells to the brain.

**Next Generation Science Standards**

- **4-LS1-1** Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.
- **MS-LS1-3** Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.