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The Human Body

Essential Question: What are the systems of the body and how are they interdependent?

Enduring Knowledge	Science Concepts	GE	Evidence of Understanding
<p><u>Body Systems:</u> The human body is unique in its heredity, body systems and development and can be affected by the environment.</p>	<p>a. The digestive, respiratory, and circulatory systems are connected. (The digestive system processes the food that cells need. The excretory system disposes of cellular waste and the intestinal tract removes solid waste. The respiratory system exchanges oxygen and carbon dioxide. The circulatory system moves all these substances to and from the cells.)</p> <p>b. A change in one system can have an effect on other systems (e.g., exercise changing heart rate and breathing rate).</p>	41	<p>Investigating circumstances that affect more than one body system and explaining the interconnected relationship between the body systems (e.g., the effects of exercise on several interdependent body systems, such as respiratory, circulatory, digestive, nervous, skeletal systems)</p>
<p><u>Human Disease:</u> The human body is unique in its heredity, body systems and development and can be affected by the environment.</p>	<p>a. White blood cells engulf invading microbes or produce antibodies that attack them.</p>	42	<p>Connecting the specialized function of white blood cells to their location in the circulatory system</p>

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Focusing Questions	Potential Inquiries/Activities	Resources/Notes
<ul style="list-style-type: none">- Human beings have body systems for obtaining and providing energy, defense, reproduction and coordination of body function.- Each system is made of specialized cells and organs, and carries out specialized functions for individual survival.	<p>How do different diseases (i.e., influenza, TB, HIV/AIDS, etc.) affect different body systems?</p> <p>What is the effect on different body systems of different forms of exercise?</p>	<ul style="list-style-type: none">- Wrist band heart rate monitors.
<ul style="list-style-type: none">- Microbes are responsible for some human disease.		