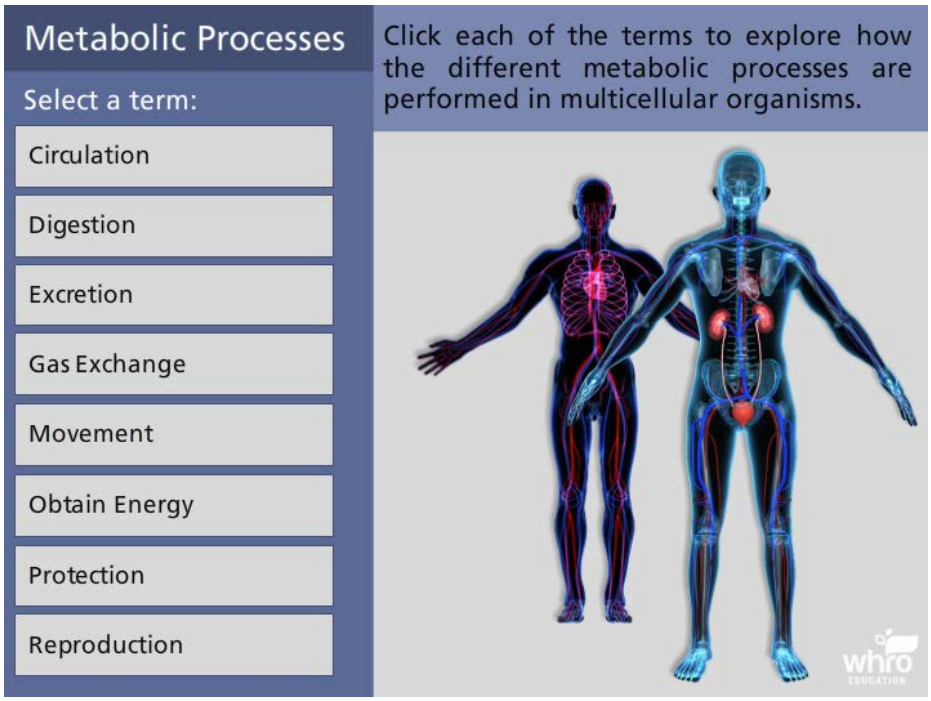
Module 3: Cell Biology - Structure and Function

Topic 3 Content: Metabolic Processes Notes

Introduction



Click each of the terms to explore how the different metabolic processes are performed in multicellular organisms.

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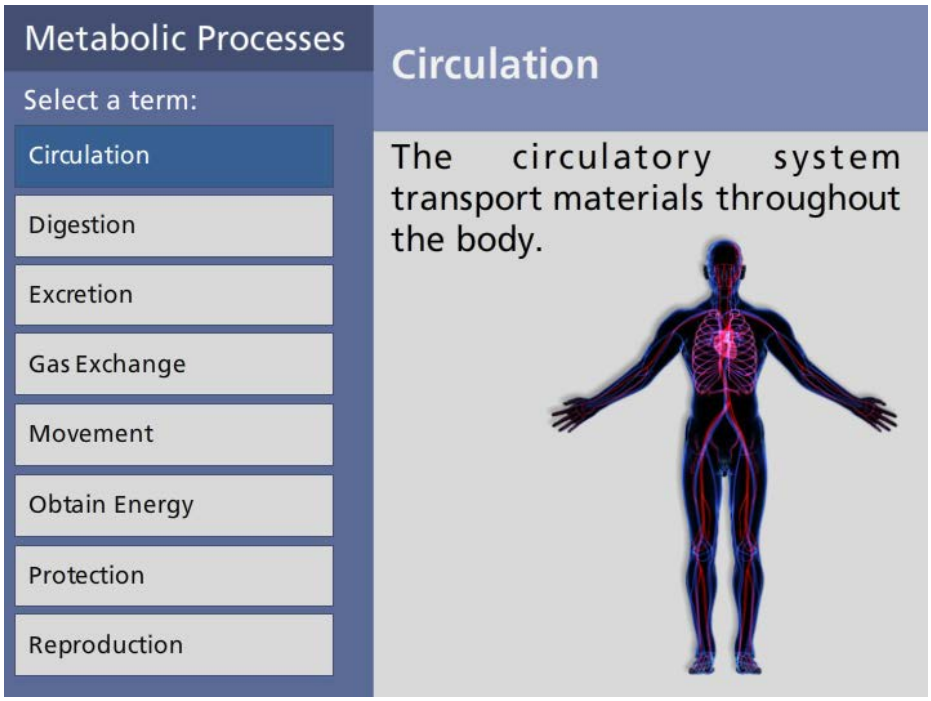
Circulation



The circulatory system transport materials throughout the body. The circulatory system in the human body is responsible for circulating blood, which supplies nutrients and oxygen and removes various waste products.

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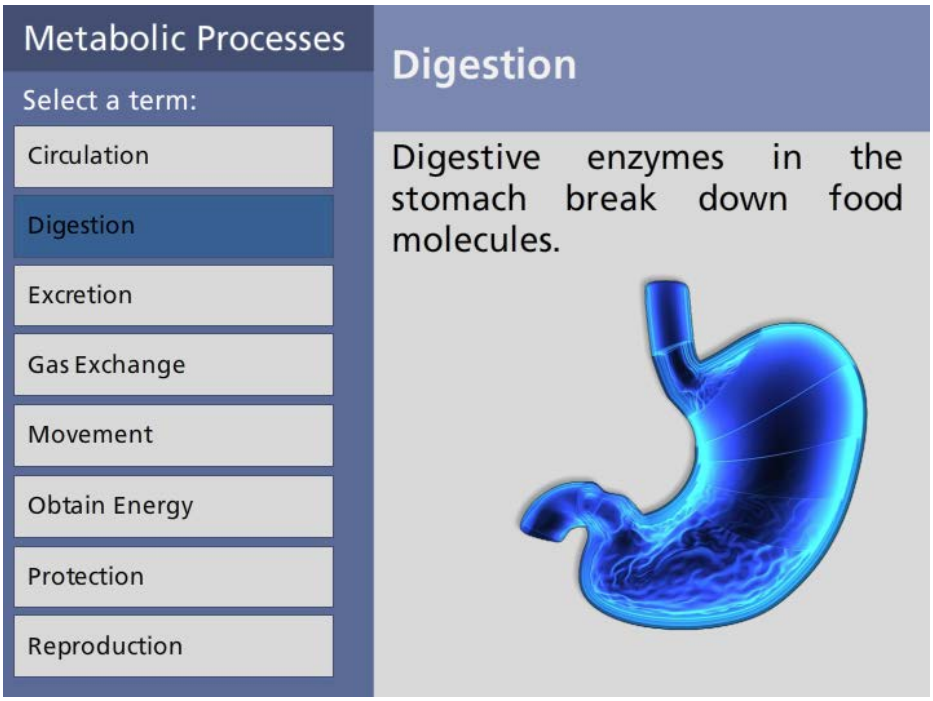
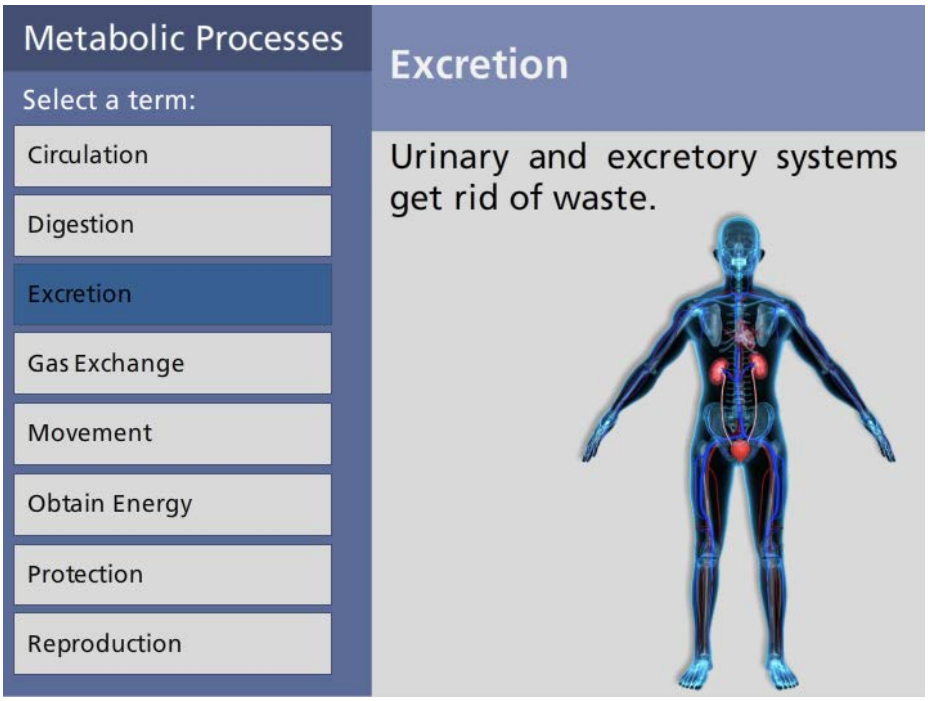
Digestion



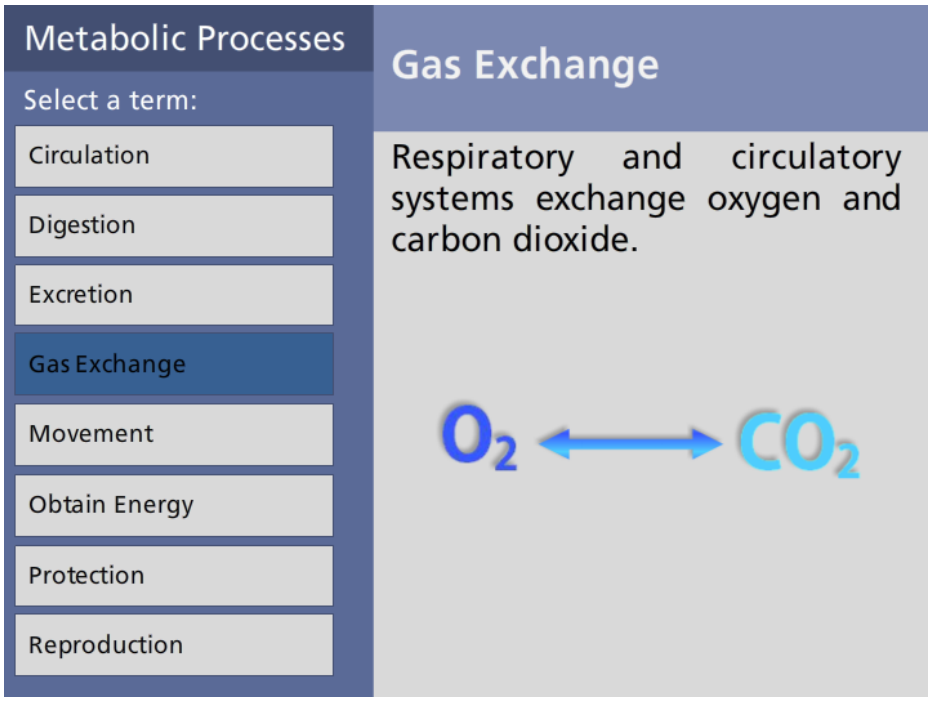
Digestive enzymes in the stomach break down food molecules.

Excretion



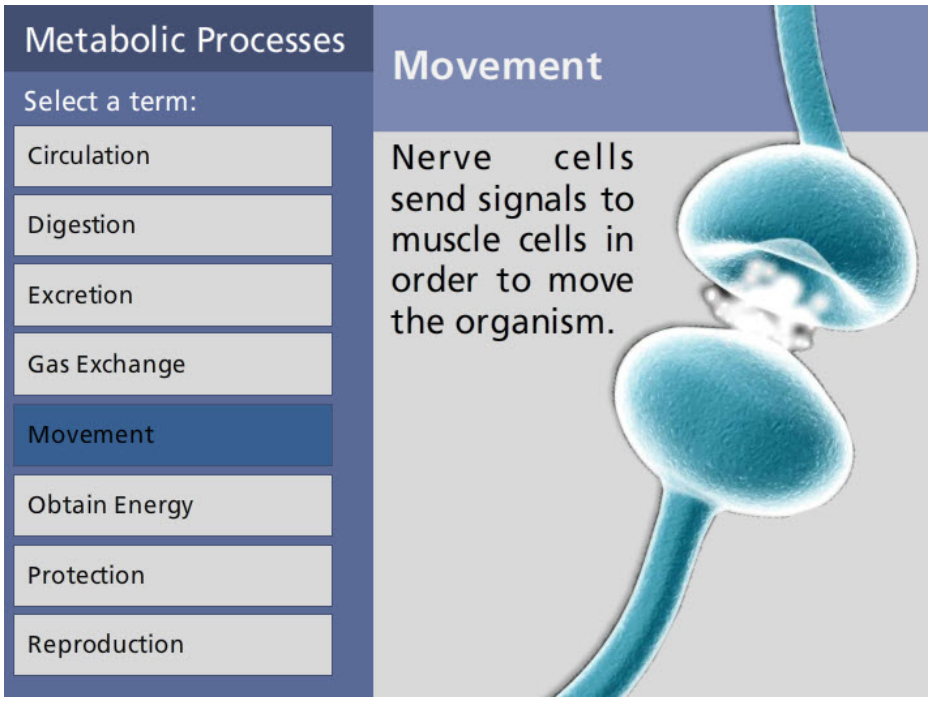
Urinary and excretory systems get rid of waste.

Gas exchange



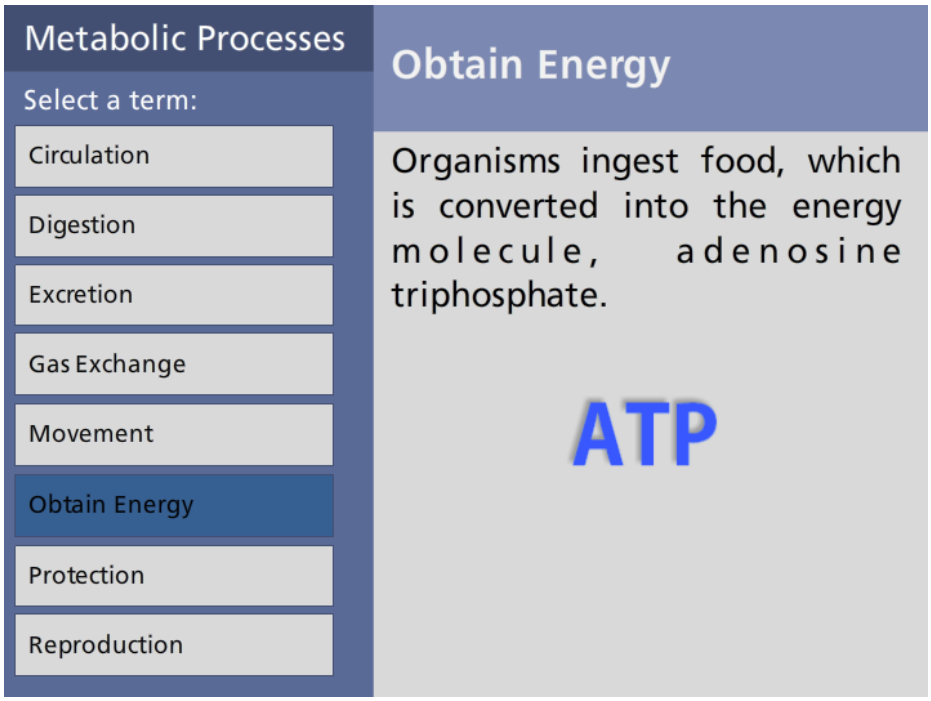
Respiratory and circulatory systems exchange oxygen and carbon dioxide.

Movement



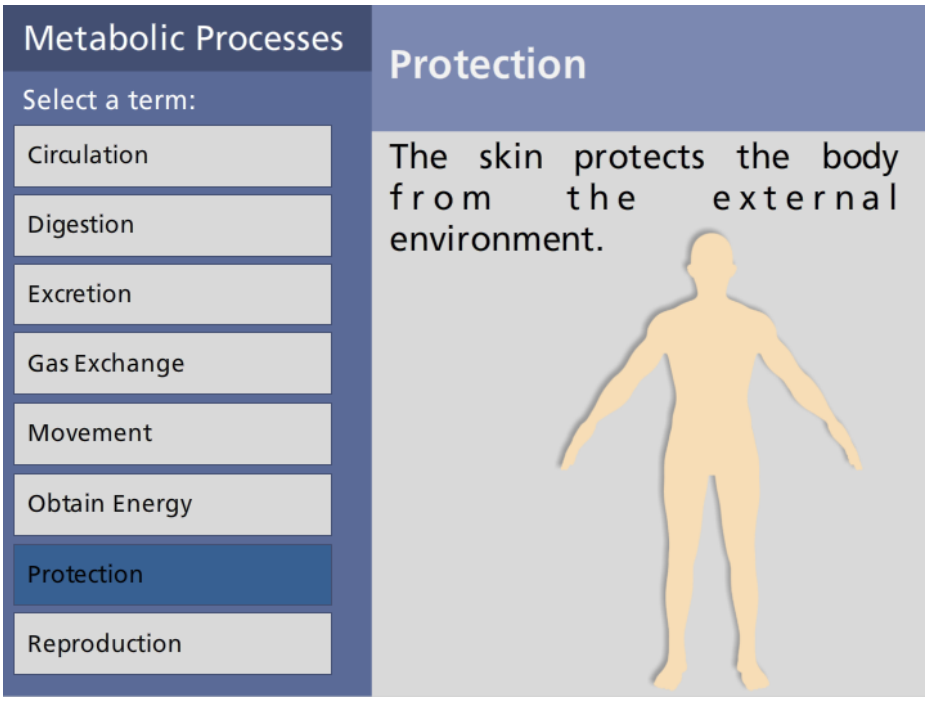
Nerve cells send signals to muscle cells in order to move the organism.

Obtain energy



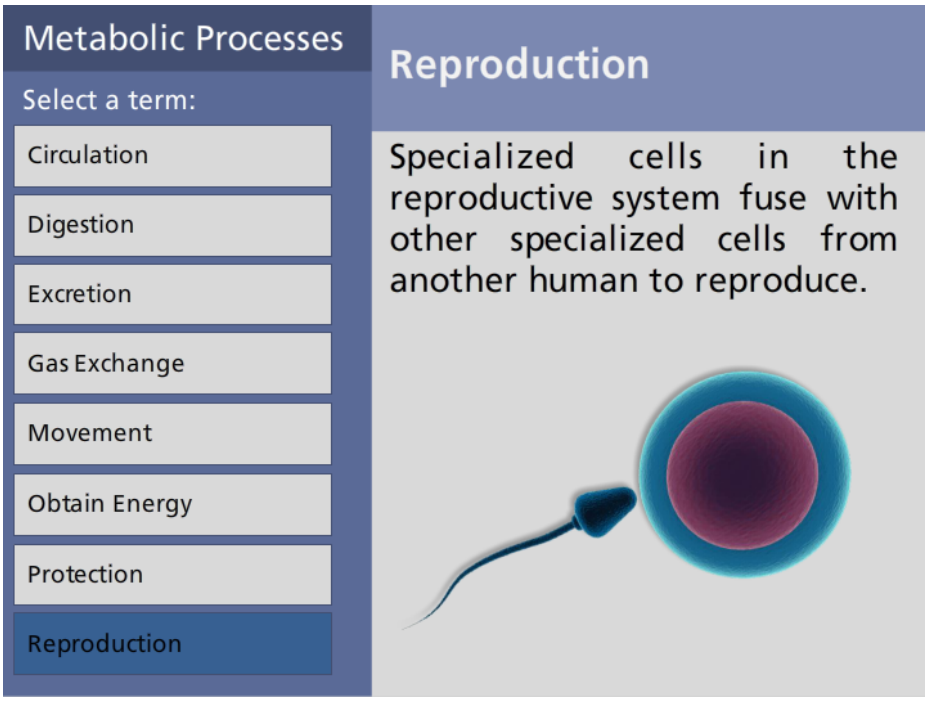
Organisms ingest food, which is converted into the energy molecule, adenosine triphosphate.

Protection



The skin protects the body from the external environment.

Reproduction



Specialized cells in the reproductive system fuse with other specialized cells from another human to reproduce.