02. The Primary Tissue Types: Human Home Depot

Content Area: **Science**
Course(s):
Time Period: **Semester 1**
Length: **4 weeks**
Status: **Published**

Standards

HS-LS1	From Molecules to Organisms: Structures and Processes
HS-LS1-1	Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins which carry out the essential functions of life through systems of specialized cells.
HS-LS1-2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.
HS-LS3	Heredity: Inheritance and Variation of Traits
HS-LS3-1	Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.
	Cause and Effect

Enduring Understandings

- Relatively few actual cell and tissue types compose the human body.
- Structure and function are inextricably linked in the body.
- Homeostatic Balance begins at the cellular level, and can manage things at the sub-cellular level!

Essential Questions

- How do the primary tissue types help inform the three overall course Big Ideas?
- How does a reductionist approach help us understand functionality at the organismal level?
- How does the physical aspect of a cell/tissue allow that cell to function correctly?

Knowledge and Skills

NGSS Science Skills/Practices:

- Asking Questions
- Developing and Using Models

- Constructing Explanations.
- Engaging in Argument from Evidence.
- Obtaining, Evaluating, and Communicating Information.

Knowledge:

- Identify the four major classes of Primary Tissue Types and a general "plan" (structure) for each.
- Identify some of the major sub-categories within the tissue types, their locations, and specific functions in the body.
- Describe some specific instances of homeostatic maintenance in which the primary tissue types are directly involved.
- Identify and interpret the roles of various primary tissue types using pictures.
- Apply the essential idea of "Structure Relating to Function" as to the location and functionality of these tissues.

Assessments

https://docs.google.com/document/d/1wR7bQF-8AQoRrt0g4C3hKja0yjwDjC9_BiAmONWbTcI/edit?usp=sharing

Modifications

https://docs.google.com/document/d/1ODqaPP69YkcFiyG72fIT8XsUIe3K1VSG7nxuc4CpCec/edit?usp=sharing