04. Abnormal Cellular Growths: When Things Go Wrong

Content Area: **Science**
Course(s):
Time Period: **Semester 1**
Length: **3 weeks**
Status: **Published**

Standards

SCI.HS-LS1	From Molecules to Organisms: Structures and Processes
SCI.HS-LS1-2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.
	Developing and Using Models
SCI.HS-LS3	Heredity: Inheritance and Variation of Traits

Enduring Understandings

- Changes within cells can profoundly affect the organism.
- Cells can become abnormal in varying ways.
- The context of the human in question can determine the severity and effects of these conditions.

Essential Questions

- How do the primary tissue types and their functions help inform the three overall course Big Ideas?
- How does a reductionist approach help us understand functionality at the organismal level?
- What criteria can be used to evaluate function?

Knowledge and Skills

Knowledge and Skills:

- Name and describe 6 major abnormal growth conditions of the body: Aplasia, Hypoplasia, Atrophy, Hypertrophy, Hyperplasia, and Anaplasia.
- Break down the prefixes and suffixes of these words for conceptual understanding of related processes.
- Give specific examples of each category that affect the body.

- Describe instances where particular growth condition can upset homeostasis, and some potential ways to compensate.

Assessments

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

Modifications

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