

Test Outline: Characteristics of Living Things and Cell Theory (Science 8)

OVERVIEW:

Topic 1.1

Topic 1.2 (but not viruses)

LEARNING MAP CRITERIA: LIFE PROCESSES ARE PERFORMED AT THE CELLULAR LEVEL

Relevance	Extending	Proficient	Developing	Emerging
<input checked="" type="checkbox"/>	<p>Utilize the characteristics of living things to construct a nuanced argument about whether something is living or non-living.</p> <p>Demonstrate a sophisticated understanding of the characteristics of living things by presenting counter-examples or questioning their limitations.</p>	<p>Utilize the characteristics of living things to construct a complete argument about whether something is living or non-living.</p>	<p>Identify and simplistically describe the characteristics of living things.</p> <p>Identify (but not necessarily be able to explain why) when something exhibits or does not exhibit one of the characteristics of living things, with some accuracy.</p>	<p>Differentiate between living and non-living things.</p>
<input checked="" type="checkbox"/>	<p>Use the history of cell theory (spontaneous generation → Hooke → modern cell theory) to explain how scientific theories are limited by technological advances and observations.</p>	<p>Give examples (from in-class and the text) of each of the statements in cell theory.</p> <p>Explain the theory of spontaneous generation.</p>	<p>State the tenets of cell theory. Recognize examples of each.</p>	

VOCABULARY:

(Disclaimer: This is not meant to be an exhaustive list. Vocabulary words may appear on the test that are not in this list.)

- Cell
- Unicellular
- Multicellular
- Nutrient
- Consumer
- Producer
- Waste
- Stimulus
 - o External stimulus
 - o Internal stimulus
- Growth
- Reproduction
- Spontaneous generation theory
- Anton van Leeuwenhoek
- Robert Hooke
- Louis Pasteur
- Cell theory

PRIMARY STUDY MATERIAL:

- Textbook
- Powerpoints (1.1, 1.2) on weebly website + any in-class notes
- Workbook practice questions