

Topic 1.1 Test Outline (Science 9)

LEARNING MAP CRITERIA:

Relevance	Extending	Proficient	Developing	Emerging
☑	<p>Explain the relationship between reproduction, continuity, and sustainability in a sophisticated way, using examples.</p> <p>Critically analyse and draw conclusions about the sustainability of ecosystems from new scenarios.</p>	<p>Compare and contrast reproduction, continuity, and sustainability.</p> <p>Recognize and explain instances where continuity is disrupted because of an imbalance between reproduction and survival.</p>	<p>Define sustainability, continuity, extinction, and reproduction.</p> <p>Recognize examples of reproduction, continuity, extinction, and sustainability.</p>	
☑	<p>Explain how the structure and packaging of DNA allows it to be an effective carrier and vector of genetic information.</p>	<p>Describe the structure of DNA and how it is packaged.</p> <p>Given the template strand, provide the complementary bases on the coding strand.</p>	<p>Know that DNA is genetic material.</p> <p>Know that a complete copy of DNA is found in the nucleus of each cell in a eukaryotic organism.</p> <p>Describe the function of DNA in inheritance.</p> <p>Label structural components of DNA.</p>	
☑			<p>Define and recognize examples of sexual and asexual reproduction. *</p> <p>Compare and contrast sexual and asexual reproduction in a simplistic manner. *</p>	<p>Recognize the need for reproduction as a basic characteristic of living things.</p>

*Note: we have only covered asexual and sexual reproduction at a surface level. We will elaborate on these concepts at a later point in the Biology unit.

VOCABULARY:

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

- Reproduction
- Species
- Continuity
- Reproduction Rate
- Death Rate (Survival)
- Extinction
- Sustainability
- Passenger pigeon
- DNA (deoxyribonucleic acid)
- Genetic information
- Nucleus
- Nucleotide
- Sugar
- Phosphate group
- Nitrogenous base
 - o Adenine
 - o Thymine
 - o Cytosine
 - o Guanine
 - o Nitrogenous base pairing
- Double helix
- DNA sequence
- Chromatin
- Chromosome
- Asexual reproduction
- Sexual reproduction

PRIMARY STUDY MATERIAL:

- Science Connections 9 Textbook
- Science Connections 9 Workbook
- Topic 1.1 Powerpoint
- In-class worksheets and activities