Topic 1.1 Test Outline (Science 9)

**Learning Map Criteria:**

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

\*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
	+ Adenine
	+ Thymine
	+ Cytosine
	+ Guanine
	+ 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