

Test Outline: Sustainable Ecosystems and Climate Change



Test Date: _____

To be successful on the test, I will be able to...

- ✓ Identify the types of radiant energy that enters ecosystems from the Sun.
- ✓ Describe the process of *photosynthesis*.
- ✓ Identify the types of organisms that undergo photosynthesis.
- ✓ Describe the location and function of the following: *chlorophyll*, *chloroplast*
- ✓ Write the word equation for photosynthesis (i.e. identify the starting materials and the products).
- ✓ Identify where glucose is stored in plants and where glucose is stored in animals.
- ✓ Describe the process of *cellular respiration*.
- ✓ Identify the types of organisms that undergo cellular respiration.
- ✓ Describe the location and function of the *mitochondria*.
- ✓ Write the word equation for cellular respiration (i.e. identify the starting materials and the products).
- ✓ Explain why photosynthesis and cellular respiration are complementary processes.
- ✓ Identify and describe all the processes that make up the *water cycle*.
- ✓ Describe how human activities and climate change have affected the water cycle.
- ✓ Identify and describe all the processes that make up the *carbon cycle*.
- ✓ Describe how human activities and climate change have affected the carbon cycle.
- ✓ Identify potential outcomes/consequences of global warming.

Notebook Checklist:

- ☐ Guided Note: *Energy Flow in Ecosystems*
- ☐ Worksheet: *How Do Interactions Supply Energy to Ecosystems*
- ☐ Summary Handout: *Energy Flow in Ecosystems*
- ☐ Guided Note with Task: *The Water Cycle*
- ☐ Guided Note: *The Carbon Cycle*
- ☐ Concept Map: *Global Warming*



One important key to success
is self-confidence.
An important key to
self-confidence is preparation.