

BIOLOGY II

Choose two writing assignment topics, along with their question sets, from the following list for each week we are gone from school. Use the writing assignment template that we distributed in class. You can answer the questions in the empty area at the bottom of the template page. Pay close attention to the rubric that was distributed with your template packet.

1. TOPIC: Describe how Aristotle's and Linnaeus's classification systems for organisms were similar.

- QUESTION SET 1
- a) List the six kingdoms.
 - b) List the seven levels of Linnaeus's classification hierarchy from most general to most specific.

2. TOPIC: Biologists think that there may be millions of undescribed and unclassified species on Earth. Why might so many species still be not described or unclassified today?

- QUESTION SET 2
- a) What criteria did Linnaeus use to classify organisms?
 - b) Define the term phylogenetic diagram.

3. TOPIC: Consider the Kingdom Protista. Explain why Kingdom Protista includes so many diverse organisms.

- QUESTION SET 3
- a) List the three domains of life.
 - b) Contrast between bacteria and archaea.

4. TOPIC: Explain how Earth's biodiversity relates to classification.

- QUESTION SET 4
- a) List any 5 scientific names along with their common names.
 - b) Compare and contrast both plants and fungi.

5. TOPIC: Identify and describe two types of information that modern taxonomists use to classify organisms.

- QUESTION SET 5
- a) List how Aristotle classified animals.
 - B) List how Aristotle classified plants.

6. TOPIC: If all animals disappeared from earth, what would the positive and negative effects on plants be?

- QUESTION SET 6
- a) What are the fruits of apples called? Tomatoes? Walnuts?
 - b) List 4 plants and their contributions to the medical world.

7. TOPIC: Explain the positive concepts and negative drawbacks of the Green Revolution.

QUESTION SET 7 a) List some disadvantages of deforestation.
b) Define plant ecology.

8. TOPIC: Describe the conditions that led to widespread famine in Ethiopia in the 1980's.

QUESTION SET 8 a) Describe the scenery and location of the "Fertile Crescent" of 11,000 years ago.
b) Distinguish between a fruit and a vegetable.

9. TOPIC: Explain why food production must increase with the increasing population.

QUESTION SET 9 a) Explain how plants and microbes interact in mutually beneficial ways.
b) Explain the relationship between fertilizer and pesticide.

10. TOPIC: Explain the nitrogen cycle and why nitrogen fixation in legumes is important for farming.

QUESTION SET 10 a) What is the name of the study of the interactions that occur between plants and the environment?
b) List three ways that plants can cause harm to people.