**Outcome Practice: Classification of Life**

**Outcomes 11 & 12**

**Name: Biology 11**

**Directions:** Complete each of the following essential questions using the tutorial as well as the guided notes to help you.

1. What is taxonomy? What is the name of the biologist that began taxonomy?
2. List the 7 taxa in order from largest to smallest and show an example of this naming system for human beings.

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| **Taxa (order largest to smallest)** | **Using an organism of your choice, indicate its classification within the 7 taxa.** |
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1. Using the diagram below answer the following questions:

Diagram

Description automatically generated

1. Is the Cardinal more closely related to the mallard duck or a turtle?
2. Explain how you know this according to Linnaeus’s classification system.
3. Use the chart below showing 5 species and their hierarchical classification based on Linnaeus’s 7 taxa of classification to answer the questions that follow.

**\*\*Note: The chart shows the taxa in order from largest to smallest**. \*\*

1. What is the scientific naming (binomial nomenclature) of the snake? Remember to think about the naming rules.
2. Which of the above organisms belong to the same class?
3. Which of the above organisms belong to the same order?
4. Which two organisms are most closely related?  **Justify** your answer.
5. Which two organisms are most distantly related to one another? **Justify** your answer
6. Which of Linnaeus’s taxa includes the most specific characteristics?
7. Which of Linnaeus’s taxa includes the broadest characteristics?
8. Which of Linnaeus’s taxa has more species, an order or a family?
9. What is binomial nomenclature and who devised it? Give an example.
10. What are the 4 rules to binomial nomenclature?
11. Explain the difference between classification on Linnaeus’s time and current day classification. How has the method of classifying changed?