

## Unit 1 Scientific Method and Taxonomy Review Day Stations

### **Station 1: Taxonomy**

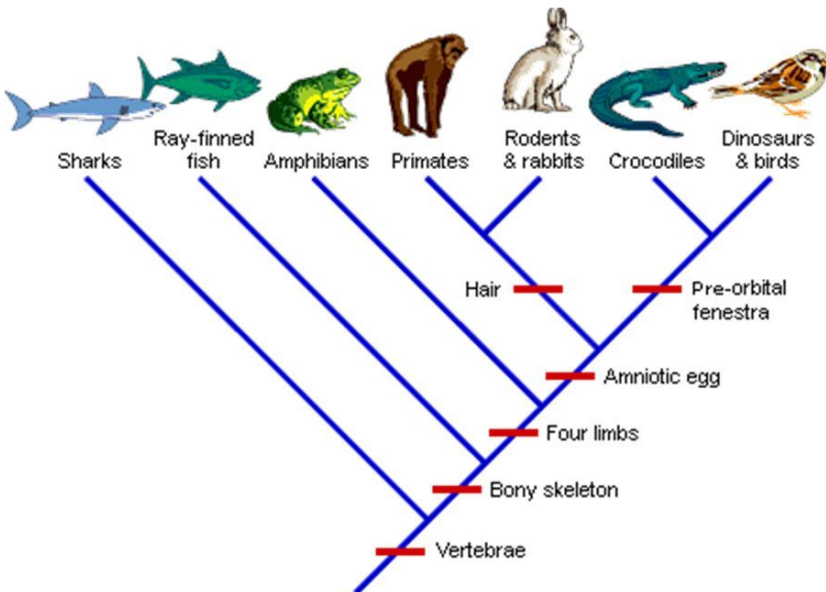
1. Grab a copy of the [Interpreting Graphics Worksheet](https://www.biologycorner.com/worksheets/taxonomy_interpret.html) (Use this address if the link doesn't work:  
[https://www.biologycorner.com/worksheets/taxonomy\\_interpret.html](https://www.biologycorner.com/worksheets/taxonomy_interpret.html))
2. **Before** answering the questions, take a moment to “talk to the text” with the concept map on the sheet. Your score for this station will include the annotations that you make on the concept map.
3. Answer the questions after you're done annotating.

### **Station 2: Characteristics of Life**

Question of the day: “What evidence is there to suggest that all organisms come from a common ancestor?”

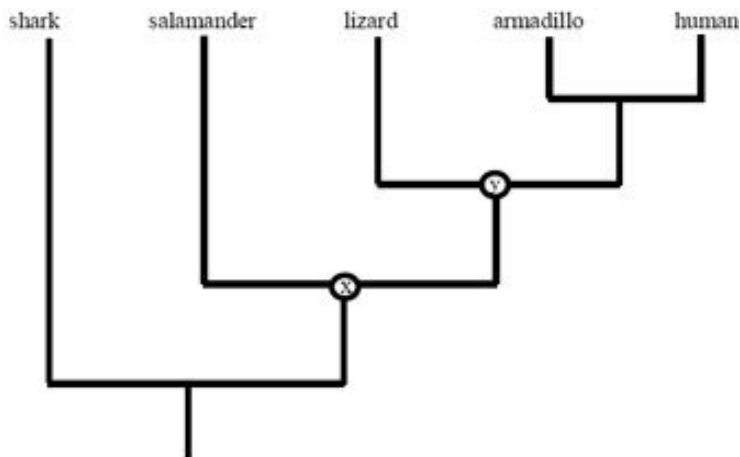
1. Copy the above question onto your paper, then divide the remainder of the paper into two columns: Evidence and Analysis/Questions
2. Watch the video at:  
[https://www.ck12.org/c/biology/characteristics-of-life/lecture/Essential-Characteristics-of-Life/?referrer=concept\\_details](https://www.ck12.org/c/biology/characteristics-of-life/lecture/Essential-Characteristics-of-Life/?referrer=concept_details)
3. **Under NO circumstances are you to answer this question!!!** Instead, you are to record evidence from the video in the first column as you watch. The evidence that you collect would help you to answer this question if you had to. Pause the video as you need to in order to capture your analysis and questions in the second column.

**Station 4: Diagrams**



1. What organisms are the most related according to this diagram?
2. According to this diagram, what organism is the least similar from the others?
3. Which organism group is the most closely related?

Amphibians and Primates OR Rodents and Primates



1. Which letter, X or Y identifies the common ancestor of the salamander and lizard?
2. According to the diagram what organism evolved first from the group listed?
3. Which two organisms would share the most levels in the Classification System?

Shark and Lizard      OR      Armadillo and Human

**Station 5: Dichotomous Keys**

Create a dichotomous key using the items left by the discretion of the teacher... ideas are... old shoes, writing utensils, science lab materials, candy etc.

Station 6: THROW BACK STATION: Scientific Method

\*\*Practice: Write a hypothesis for each of the statements and identify the variables, control group, and experimental group.

1. Eating breakfast increases performance in school.

Hypothesis: If \_\_\_\_\_, then \_\_\_\_\_

Independent Variable: \_\_\_\_\_ Dependent Variable: \_\_\_\_\_

Control Group: \_\_\_\_\_ Experimental Group: \_\_\_\_\_

2. Read the following situation and answer the following questions.

Suzie Q wants to know the effect of different colors of light on the growth of plants. She believes that plants can survive best in white light. She buys 5 ferns of the same species, which are all approximately the same age and height. She places one in white light, one in blue light, one in green light, one in red light and one in the closet. All of the ferns are planted in Miracle-Grow and given 20 mL of water once a day for 2 weeks. After the two weeks, Suzie observes the plants and makes measurements.

Hypothesis: If \_\_\_\_\_, then \_\_\_\_\_

Independent Variable: \_\_\_\_\_ Dependent Variable: \_\_\_\_\_

Control Group: \_\_\_\_\_ Experimental Group: \_\_\_\_\_

Constants: \_\_\_\_\_

What types of measurements can Suzie make on the plants to determine how they did in different types of light? \_\_\_\_\_