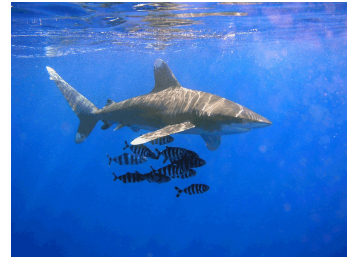


Name: \_\_\_\_\_

Due Date: 11/8 Period: \_\_\_\_\_

## Comparing Anatomy: Homology and Analogy

1. Which 2 of the following animals are most closely related? Give two reasons for your answer.



2. \_\_\_\_\_ and \_\_\_\_\_ are most closely related because

a. \_\_\_\_\_

\_\_\_\_\_

b. \_\_\_\_\_

\_\_\_\_\_

3. After viewing all the evidence, which two animals are most closely related?

4. \_\_\_\_\_ and \_\_\_\_\_ are most closely related because

a. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Describe which animals have analogous characteristics. Use evidence from the activity.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. Why do you think many organisms have a similar appearance even if they're not related? (Ex: Sharks & Dolphins)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

Due Date: 11/8 Period: \_\_\_\_\_

## Comparing Anatomy: Homology and Analogy

1. BEFORE you look at the evidence, complete number 2.
2. Which two animals do you think are most closely related? Give two reasons for your answer.

\_\_\_\_\_ and \_\_\_\_\_ are most closely related because

a. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b. \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

3. In your group, look at the pictures related to the 4 animals and decide which animals are most closely related.
4. Use the pictures to compare and contrast the 4 animals. You can be brief.

a. Newborns \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b. Embryo Development \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c. Mother with Young \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_

Due Date: 11/8 Period: \_\_\_\_\_

## Comparing Anatomy: Homology and Analogy

5. After viewing all the evidence, which two animals are most closely related?

6. \_\_\_\_\_ and \_\_\_\_\_ are most closely related because

a. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

HP = Follow the link below to an article on the evolution of whales. Then answer the questions on a piece of lined paper or typed (preferred). The article is also linked on my website.

[https://evolution.berkeley.edu/evolibrary/article/evograms\\_03](https://evolution.berkeley.edu/evolibrary/article/evograms_03)

1. Describe the overall evolution of whales from land animals to aquatic animals. What is some evidence that they were once on land?
2. Describe the evolution of nostrils in whales. What structure did it result in that whales and dolphins have today?
3. Explain the movement of the tails of dolphins and whales. Why do they differ from the tails of fish?
4. Would you say that whales and fish are more homologous or analogous? Explain using evidence from the reading or other materials. Please cite any other materials used.

Highly Proficient (4)	Proficient (3)	Close to Proficient (2)	Developing (1)
Proficient, plus: <input type="checkbox"/> Whale evolution is clearly understood. <input type="checkbox"/> Evidence is used <input type="checkbox"/> Whale questions are complete and show thought.	<input type="checkbox"/> student understands the basic ideas of homologous and analogous structures <input type="checkbox"/> Answers are complete and show thought. <input type="checkbox"/> EVIDENCE is used to support answers	<input type="checkbox"/> Activity is mostly complete. <input type="checkbox"/> Answers need more detail for higher level <input type="checkbox"/> Evidence is missing <input type="checkbox"/> Some information is incorrect.	<input type="checkbox"/> no understanding is shown <input type="checkbox"/> questions are mostly incomplete.