

The evolution of flight in Birds

Pre-Test

Name _____

Class _____ Date _____

Directions: Please answer each of the following questions. If you do not know the answer, just leave it blank. You will be asked similar questions after you complete the tour so that you can see how much you have learned!

1) **A cladogram is:**

- a. A diagram illustrating evolutionary relationships between groups of organisms
- b. A diagram showing when organisms evolved
- c. A diagram showing when organisms went extinct
- d. All of the above
- e. None of the above

2) **Birds can be considered to be dinosaurs because:**

- a. They share more than 100 anatomical features with them
- b. They both appear during the Jurassic
- c. They are both warm-blooded
- d. They both have scales
- e. Birds are not related to dinosaurs

3) **Birds share features with certain dinosaurs (theropods) including:**

- a. Bipedalism
- b. Feathers
- c. Hollow bones
- d. All of the above
- e. None of the above

4) **The following features appeared after the evolution of flight:**

- a. Bipedalism
- b. Feathers
- c. Hollow bones
- d. All of the above
- e. None of the above

5) **Feathers:**

- a. First appear with *Archaeopteryx*
- b. Are seen throughout the dinosaur lineage
- c. First evolved for functions other than flight
- d. Evolved for flight
- e. All of the above

6) **The fossil of *Archaeopteryx* had wings and feathers. These are examples of:**

- a. Direct evidence
- b. Inference
- c. A lack of evidence
- d. Too much evidence
- e. None of the above

7) Based upon the evidence in question #6, *Archaeopteryx* could fly. This statement:

- a. Is an inference supported by direct evidence
- b. Is not supported by evidence
- c. Has been proven false
- d. Is supported by molecular evidence

8) Examine the cladogram of imaginary creatures below, each shown with their unique mode of locomotion. From this information, which of the following statements is correct:

- a. Fins appeared very early in the lineage
- b. All creatures had gills
- c. Gills evolved for swimming
- d. Gills probably evolved for a purpose other than swimming
- e. All of the above

