

Name _____
Date _____ Period____

From Land to Water: Whale Evolution

To Get to the Website:

1. Open up Internet Explorer.
2. Click on "Homework Links" on the La Colina Home Page.
3. Click on "Science."
4. Click on WebQuests "7th."
5. Click on "Whale Kiosk."

Directions: There are 2 parts to this site. One part looks at anatomy (body structure) and one looks at DNA. You can go in any order but make sure you are looking at the right set of questions! Use the arrows at the kiosk to turn to the other section.

Anatomy:

1. What 2 animals are we comparing to whales? _____

HINT: Go through the comparison of parts first!

2. There were _____ parts like the fish and _____ parts like the cat.
3. _____ are signs of life that have been preserved in the geological record.

HINT: Put your mouse over the different fossils!

4. _____ are indirect signs of past life.
5. Which part of the teeth is most useful to compare? (not the molars)

6. What animal had teeth like the whale? _____
7. Name some modern day ungulates. _____

8. What kind of bone did scientists find to show whales are more like pigs? _____

Molecules (DNA):

1. Where is DNA found? (What is that x called?) _____
2. DNA is like _____ code or the a_____ because it

has each organism's g_____ b_____.

3. What 3 animals are we comparing to the whale?

HINT: Remember to record the differences and be patient. There is more than 1 round!

4. How many matches did each animal have? Horse _____ Cow _____ Seal _____

5. Which animal is the whale's DNA most like? _____

Directions: You can reach other paths by clicking on the whale button in the lower left corner while you are still in that program. You can do these for extra credit.

In Anatomy, click on "Fossil Whales Home."
Click "Forward" once and look for the game bone in the upper right!

1. (Be a paleontologist.) How fast did you put the bones together?

2. (Morph a limb.) Did you use the rotation or change in size the most? _____

In Molecules (DNA), click on "Game 2 (Mutations)."

1. Whales and artiodactyls (the cow group) have a _____

2. _____ are part of the editing process.

3. Changing the pattern can have no _____ or change the

_____ of the pattern.

4. If the mutation make it more fit, it will pass it on to _____

5. If the mutation hurts, it will get _____ out of the population.

6. In DNA, the _____ process never stops.

7. Gambling and Mutations are _____.