**Darwin and Natural Selection Assignment**
On my website, click “Darwin and Natural Selection” to find websites for this assignment

**Bugs Interactive**
Play the interactive using different background colors.
1. What happens when you change different background colors? Why?

2. Click “Learn More.” Write down 3 important ideas from this section.

**Snakes and Limbs**
Read this section and watch the video.
1. Did snakes ever have legs? Explain what happened.

2. Write 2 interesting things about snakes from this section.

**Whale Animation**
1. In your own words, explain what has happened over millions of years to whales.

**Darwin’s Survival Game**
Click “Learn About Natural Selection”
1. List the 3 parts of Darwin’s Theory of Natural Selection.

Play the Survival Game. Try this until you survive.
2. What types of factors/events kept you from surviving?

3. Sketch the animal that did survive in the box. Why did it survive?

4. In “Darwin’s Bio,” how old was he when he left to travel the world as a naturalist?
5. Why was his book “The Origin of Species” so important?
6. Try the Quiz. What was your score?
**Survival of the Sneakiest**
1. Read the comic strip. Darwin’s theory of natural selection is often summarized with the phrase “survival of the fittest.” We tend to think that being fit means being big, strong, or athletic. According to this comic strip, which cricket was the “fittest,” and why? (what characteristic made him “fit”)

2. Is chirping good or bad for a cricket? Does it help it survive and reproduce?

**Variation, Selection, and Time:** Click Recipe for Evolution
1. When did the first living cell develop?

2. What 2 things introduce variations in living things?

3. Explain natural selection in your own words.

4. How many generations might it take for a small change in each generation to significantly change an entire population/species?

Go back and click Eye Evolution
1. Write 3 things you learned about eyes.

**PBS Video:** Click video 3, How do we know evolution happens (Quicktime)
1. What do fossils tell us about what has happened to life on Earth?

2. How long does it appear to have taken the modern whale to evolve from a wolf like animal?

**Whales**
1. In comparing **anatomy**, which parts of a whale more closely resemble a cat than a fish?

2. In comparing **fossil** evidence, what animal do scientists believe whales evolved from?

3. In comparing molecular (DNA) evidence, which animal is most like a whale?

4. Fill in the cladogram below to show the whales closest relatives

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      WHALE
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