Fossils and Evolution Web Quest:

Stop one is an interactive activity about Fossils and the Fossil record. <http://www.e-learningforkids.org/science/lesson/exploring-fossils-and-fossil-records/>

1. What does a fossil record do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What are the meanings of the two root words of Paleontology? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What tools are needed for paleontologists?
2. Record the name of each fossil from the dig site and 1 fact
3. Desert: Why is the desert a good place to find fossils? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Plains
5. Mountains: These are great places to find fossils because they are steep, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Arctic:

Go to the <http://www.sciencechannel.com/games-and-interactives/charles-darwin-game/> and play.

1. Describe the 3 creatures you chose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What was your result? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What year did your species survive to? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Do you need to try again? \_\_\_\_\_\_\_
   1. Yes 🡪 choose 3 organisms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* 1. No 🡪 Move on…

Go to ck12.org: <http://www.ck12.org/book/CK-12-Life-Science-For-Middle-School/section/7.1/>

1. Why is Darwin famous? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. How many miles of the coast of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the Galapagos islands? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What are the Galapagos Islands famous for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What made Darwin’s Finches so unique? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What is artificial selection? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Who are the 3 scientists that influenced Darwin?
2. The 1st was a French Naturalist. He was the 1st scientist to propose \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The 2nd was an English Geologist. He said erosion changes the Earth’s surface so Earth must be\_\_\_\_\_\_\_

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1. The 3rd was and English Economist. He said when populations grow more resources are needed, therefore if they get too big, what happens to the population? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. As Darwin thought through his theory he reasoned that certain traits mean organisms can survive and have offspring, therefore nature does what? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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<http://www.ck12.org/book/CK-12-Life-Science-For-Middle-School/section/7.2/>

1. How long ago did ancient land mammals head back to sea? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is a vestigial structure? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What did Peter and Rosemary Grant do on the Galapagos Islands? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What did they find? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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This part is a project that is due Friday. It must be fully colored and labeled. Use White copy paper to make your “project” You will receive bonus points if you use an additional medium other than crayons or colored pencils to color your “project”. (This was borrowed from a betterlesson.com)

**Introduction:** The adaptations organisms possess are key to their survival in a specific environment (their niche). Adaptations can help an organisms fight, stay hidden, find food, maintain territory, attract a mate and many other things. This is a major part of Darwin’s theory of natural selection.

**Assignment**: For this project you will create a fictional creature with whatever adaptations you think will help it survive in its environment (you choose the environment too).

* Name 10 adaptations for your creature: how is each adaptation essential/beneficial for your organism
* Write a detailed description of real-world environment where your creature lives.
* Label and COLOR your drawing.
* Name your creature
* There is a contest for the most creative creature