**Coevolution Webquest**

**Part 1:** Go to the website:

http://www.necsi.edu/projects/evolution/co-evolution/co-evolution\_intro.html

**Directions:** Read about coevolution and answer the following questions.

**Coevolution**

* How do organisms benefit through coevolution?
* How do adaptations play a role in coevolution?
* How can coevolution lead to a new species?

**Click on “Predator-Prey Relationships” at the bottom of the page.**

**Predator Prey Relationships**

* How do predator and prey evolve together? Use natural selection in your answer.
* How is coevolution seen in the polar bear and seal pup relationship?
* How did the zebra and lion relationship lead to increased speed in both animals?
* How do the Galapagos tortoise and the cactus show coevolution?
* How do predator-prey relationships lead to keen senses?

**Click on “Mutualistic Relationships” at the bottom of the page.**

**Mutualistic Relationships**

* Why would mutualistic relationships lead to coevolution of two organisms?
* Explain how the oxpecker and zebra (or rhinoceros) show coevolution? Explain the benefits to both organisms in your answer.
* Define pollination.
* Explain the relationship of the bee and the flower. How would this relationship lead to coevolution? Use natural selection in your answer.

**Scavenger Hunt**

* Many flowers have coevolved with the organism that pollinates them to the point where the extinction in one of these species would most likely lead to the extinction of the other. **Research** pollinator and flower relationships and give **two examples** of flowers that have coevolved with the organism that pollinates them. Why would extinction of one lead to the extinction of the other? Include a picture for each example
* **Find a picture** of the spider crab covered in algae. Use the picture and what you know about natural selection to explain how these two organisms could have coevolved.
* Explain the relationship we have with the bacteria that lives in our digestive system.

**Click on the “Parasitic Relationships” link at the bottom of the page.**

**Parasitic Relationships**

* What is a parasitic relationship?
* How do fleas benefit from their hosts? How are the hosts affected?
* How do tapeworms benefit from their hosts? How are the hosts affected?
* How do barnacles benefit from their hosts? How are the hosts affected?
* How could parasites evolve to benefit from their hosts without killing them? Use natural selection in your answer.
* How do parasites and hosts coevolve?
* How do parasitic relationships cause organisms to coevolve with other organisms other than the parasite?

**Scavenger Hunt**

* **Research** parasitic relationships. Give **one example** of a parasite and host that have coevolved other than the ones you see here.