

## Honors Environment and Ecology

### Co evolution

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- 1) Get into groups of 4 or less and get 1 computer from the cart.
- 2) Using the computer complete the following assignment.
- 3) One completed project will be collected for each group.

#### Part I: Introduction to Coevolution

Directions:

1. Watch the *Ancient Farmers of the Amazon* video found at the following link:  
**<http://www.teachersdomain.org/resource/tdc02.sci.life.evo.leaf/>**

\*I will post the link on the front page of my website if you would rather go there instead of typing in the address

2. After the video draw a picture that includes the ants, fungal gardens, mold, and bacteria. Label your drawings and add arrows to show how the four organisms interact. You will not be graded on your artistic ability.
3. Discuss with your group how this is an example of the symbiosis of four organisms (include the use of terms such as mutualism, commensalism and parasitism as needed).

Answer the following questions on the back of the paper with your drawings:

- What is the relationship between the ants and the fungus? How does this relationship influence the way they evolve?
- What is the relationship between the ants and the mold? Why does the commentator describe the relationship as an evolutionary arms race?
- Why was Cameron Currie's discovery of the bacteria on the ants' bodies so amazing?
- Give an example of another group of species that have coevolved with each other.