



## Appearances are Deceiving

### Analysis Questions

Directions: On a separate piece of paper, answer the following questions about convergent and divergent evolution:

1. List three adaptations that organisms possess to allow them to survive in
  - a. the dark
  - b. high pressure
  - c. low oxygen
2. List five analogous adaptations that have been observed in this activity and name the organisms that possess these adaptations.
3. How is bioluminescence used in terrestrial ecosystems? Give four examples.
4. Terrestrial cave organisms and benthic marine organisms possess structures that are very similar. Using fish or arthropods from both environments, list characteristics of one of the groups (i.e., fish or arthropods) that are similar and explain why these adaptations would be considered analogous rather than homologous.
5. In what manner are the luciferan compounds considered analogous?