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IBI Lesson 9: *Daphnia* and Evolution

Purpose: To discover how *Daphnia* have evolved and how scientists have determined this.

Guiding Question: What structures do *Daphnia* have that help them live and reproduce?

Background

All organisms evolve. Evolution is the genetic change in a population of a species. *Daphnia* are not excluded from this. Over time their genetic makeup will change. How do scientists know this happened? Read "*Daphnia's* Change of Appetite" on pages 106-108 in the IBI book to find out. Then answer the following questions below.

Reading Questions

1. A harmful variety of cyanobacteria was responsible for killing many of the *Daphnia*. Yet, some were able to survive. What allowed these *Daphnia* to survive?

2. Describe the experiment scientists did to show that the *Daphnia* evolved.

3. How does the scientists' experiment provide evidence of evolution?