

## Nature 2 U (On-Site or Outreach Program) – Bees: Nature Exploration

**Topics covered:** Without bees, we wouldn't have honey, but we wouldn't have apples, oranges, onions, or almonds either. That's because bees are pollinators, and are responsible for pollinating up to 75% of crops. Students will learn about pollination, bee colonies, and how honey is made.

**Ages:** PK – 8<sup>th</sup>

**Purchase Details:** \$6 per student

Programs can be reserved by phone: 901-636-2221  
Tuesday - Friday, sessions by appointment

### **Objectives:**

1. Learn about the structure of a bee colony.
2. Find out just how much bees help our environment and our economy.
3. See preserved bee specimens.

**Vocabulary:** adjusted for specific grade levels

colony  
pollinator  
barb  
antennae  
drone  
compound eye  
mandibles  
nectar  
spiracles  
swarm  
wax  
proboscis  
pheromone

### **Fun Facts:**

- A queen bee can lay up to 2,000 eggs a day.
- If the queen bee dies in a honeybee hive the workers can create a new queen bee. They do this by selecting a young larva and by feeding it special food called 'royal jelly' the larva will develop into a fertile queen. Bees pollinate several different species of fruit trees, like bananas, mangoes, and avocados.
- It takes the nectar of 2 million flowers to make one pound of honey.
- Bee pollination contributes over \$14 billion annually to crop economy.

**Web Resources:**

Tennessee Wildlife Resource Agency – [www.tn.gov/twra.html](http://www.tn.gov/twra.html)

Tennessee Wildlife Federation – [www.tnwf.org](http://www.tnwf.org)

Exhibit Information at Lichterman Nature Center – [www.memphismuseums.org/lichterman-nature-center/](http://www.memphismuseums.org/lichterman-nature-center/)

The Bee Conservancy – <https://thebeeconservancy.org/>

**Where:** Lichterman Nature Center Amphitheater or classrooms

**When:** Year-round, Tuesday – Friday, sessions by appointment

- **Standards:**
  - **(Grade Level)** PK - 8
- **Tennessee: (Life Science)**
  - LS (1-4), ETS2
- **Mississippi: (Life Science)**
  - L (1-4), E (9-10)
- **Arkansas**
  - LS 1, 2, 3, 4