

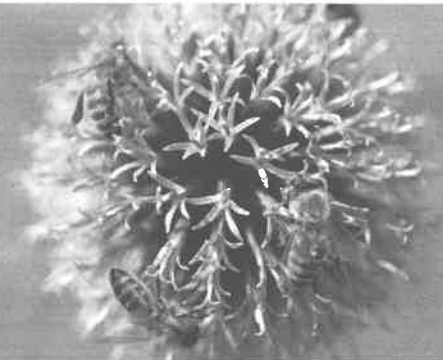
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## Experiential Learning Model - 6

### LESSON ONE - The Plight of the Bees - 9

Youth will study the latest findings on bee populations and other pollinators and consider how bees respond to changing elements in their environment.

Apple Star to Candy Bar  
Pollination Sensation Smoothie & Snacks  
Population Trepidation



### LESSON TWO - Bee Structures and Functions - 22

Youth will study the structures and functions of the honey bee and understand how their different parts allow them to thrive in their environment.

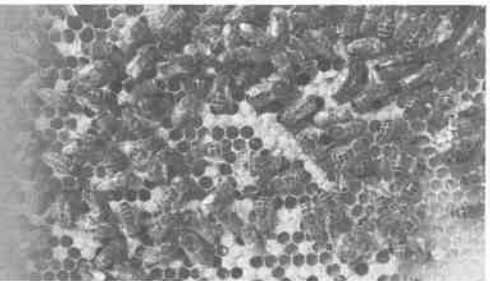
Pollination Observations  
Bee Collection  
Bee Book Binding + Sketching  
Pollinator Monitoring



### LESSON THREE - Bee Life Cycles- 37

Youth will identify the life cycle stages for social and solitary bees.

Bee Life Cycles  
Life Cycle Comic Book



### LESSON FOUR - Bee Behavior - 49

Youth will explore the behaviors of the eusocial honey bee that allow for sharing information between bees, including locating foraging opportunities, guarding the colony, mating and other essential utilities that enable them to survive.

Hive Communication and Behavior  
Honey Bees for Hire  
Feeding Study



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## LESSON FIVE - Honey Bee Hives and Native Bee Nests - 66

Youth will explore the global roots of beekeeping and examine cultural honey bee management across the world. Youth will study the fundamental needs of honey bees and other pollinators and engage in hands-on activities to understand the construction honey bee hives.

Building a Bee Hive  
Where the Wild Bees Are  
Hexagonal Honey Comb



## LESSON SIX - Bee Gardens- 84

Youth will explore the nutritional needs of bees and develop plants to create a bee garden.

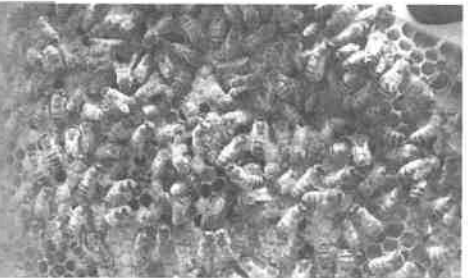
Pollination Machination  
Pollinator Garden



## LESSON SEVEN - Honey Bee Hazards - 102

Youth will investigate current threats to hives and habitats and explore the interactions between honey bees and environmental and biological pressures

CCD Topple Tower



## LESSON EIGHT - Bee Celebration and Stewardship - 125

Youth will summarize ways that humans play a role in bee conservation.

Honey Tasting  
Beeswax Chapstick  
Candles  
Bee Professional Interview  
4-H Presentation  
4-H Project Record Book  
State 4-H Honey Bee Essay  
4-H State Fair Insect Collection

