

# Mendocino County 4-H Youth Development Program

## Level I Beekeeping Proficiency

Name: \_\_\_\_\_ Club: \_\_\_\_\_

To obtain the Level I Beekeeping Proficiency, complete 80% of the following items.

Date Completed/

Project Leader Initials:

- \_\_\_\_\_ 1. Using a diagram of a bee, identify twelve (12) parts of the honeybee.
- \_\_\_\_\_ 2. Explain why a honeybee is an insect. What other insects are related to the honeybee?
- \_\_\_\_\_ 3. What is the difference between a solitary bee and a semi-social bee?
- \_\_\_\_\_ 4. Describe two early methods of beekeeping and how they are similar or different from modern methods of beekeeping.
- \_\_\_\_\_ 5. List the three different castes of honeybees and the duties of each.
- \_\_\_\_\_ 6. Identify and demonstrate how to use three beekeeping tools.
- \_\_\_\_\_ 7. Describe the different parts of a hive and explain how the bees use them.
- \_\_\_\_\_ 8. Describe three things that bees eat. Where do bees find these things?
- \_\_\_\_\_ 9. Explain how pollination works and why honeybees are so important to this process.
- \_\_\_\_\_ 10. Explain how honeybees make honey from the nectar of flowers.
- \_\_\_\_\_ 11. Demonstrate how to safely approach bees in a hive without harming the bees and keeping everybody in the project safe.
- \_\_\_\_\_ 12. Explain the parts of a bee box and explain what function each plays in the hive.
- \_\_\_\_\_ 13. Share what was learned in the beekeeping project with others,
- \_\_\_\_\_ 14. Define and/or describe ten (10) of the following terms:

brood	nectar	Queen bee	honey	hive
pollen	frame	pollination	propolis	
smoker				
- \_\_\_\_\_ 15. Give a presentation about something new you have learned about bees, honey, or beekeeping.
- \_\_\_\_\_ 16. Participate in a community service or service learning activity related to the bee project.

## Level I Beekeeping Proficiency continued

Date Completed/

Project Leader Initials:

\_\_\_\_\_ 17. Exhibit a honey product or something related to the bee project at a fair or 4-H event, such as a poster, educational display, or booth.

Resources: Virginia 4-H, 'The Buzz about Bees': [http://pubs.ext.vt.edu/380/380-070/380-070\\_pdf.pdf](http://pubs.ext.vt.edu/380/380-070/380-070_pdf.pdf))

### 4-H Beekeeping manuals, online only:

Understanding the Honey Bee, [4-H 571-W](#)

Working with Honey bees, [4-H 586-W](#)

Advanced Beekeeping Methods, [4-H 593-W](#)

Facilitator/Helper's [Guide](#)

The [Bee Hive](#) (Purdue University, Department of Entomology)

## Completion of Level I

### Beekeeping Proficiency continued

The member has successfully completed 80% (14 of 18) of the above items.

Member's Signature: \_\_\_\_\_

Project Leader's Signature: \_\_\_\_\_