

# Mendocino County 4-H Youth Development Program

## Level II Beekeeping Proficiency

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

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

Date Completed/

Project Leader Initials:

- \_\_\_\_\_ 1. Describe the history of how the honeybee first came to North America.
- \_\_\_\_\_ 2. Using pictures, identify and describe the differences between two California bee species.
- \_\_\_\_\_ 3. Describe what to look for when choosing the best location for a beehive.
- \_\_\_\_\_ 4. When checking for a healthy hive, what are you looking for in terms of brood, honey, and pollen.
- \_\_\_\_\_ 5. Keep or observe a beehive during the project year. Record the amount and condition of brood, honey, and pollen at least once every two weeks for a period of three months.
- \_\_\_\_\_ 6. How far will a honeybees travel for their hive to gather nectar? What factors determine how far a honeybee will travel?
- \_\_\_\_\_ 7. Demonstrate how to assemble a honey frame.
- \_\_\_\_\_ 8. Describe the four stages in a bee's life cycle.
- \_\_\_\_\_ 9. Describe how to identify two diseases or pests, and what can be done to keep the have healthy.
- \_\_\_\_\_ 10. Exhibit a product produced form your hive at an event outside of the bee project, such as honey or comb at a fair, create a food product for Favorite Foods event, or a display at school or window. Name of event \_\_\_\_\_ Date \_\_\_\_\_
- \_\_\_\_\_ 11. Describe how the honeybee cures nectar into honey.
- \_\_\_\_\_ 12. Describe how the bees collect and use propolis.
- \_\_\_\_\_ 13. Participate in a honey extraction and explain the process.
- \_\_\_\_\_ 14. Make a list of the many uses of honey and beeswax.
- \_\_\_\_\_ 15. Compare and contrast the use of honey and sugar when used in baking.
- \_\_\_\_\_ 16. Participate in a community service or service learning activity related to the bee project.
- \_\_\_\_\_ 17. Attend a beekeepers' meeting (e.g. Mendocino County Beekeepers) and share what was learned at a bee project meeting.
- \_\_\_\_\_ 18. What plants may be harmful to the honeybees?

Resources: Purdue University: [http://www.four-h.purdue.edu/natural\\_resources/Projects/beekeeping/](http://www.four-h.purdue.edu/natural_resources/Projects/beekeeping/)

University of New Hampshire Cooperative Extension 4-H Bee Manual:

[http://extension.unh.edu/resources/files/Resource002759\\_Rep4060.pdf](http://extension.unh.edu/resources/files/Resource002759_Rep4060.pdf) ,

Florida Cooperative Extension: <http://sarasota.ifas.ufl.edu/4-H/RBooks/4-H%20Advanced%20Beekeeping%20Manual.pdf>

**Completion of Level II Beekeeping Proficiency continued**

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

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

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