# Science & Technology
## ENTOMOLOGY LEVEL 3

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| **Teaming with Insects, Level 3**  
Grades 9-12 | Pre-requisites: Complete Entomology Level 2 (or approval of 4-H Professional)  
- Using the “Teaming with Insects” Level 3 curriculum booklet:  
- Complete a minimum of 5 activities per year.  
- Complete all 15 activities within 3 years to pass Level 3.  
- Have your project helper date (month and year) and initial each activity when it is finished.  
- Give an oral presentation (speech, demonstration or illustrated talk) related to this project. |  
- 4-H Project Record Book (#91950)  
- 4-H Involvement Report (#91910)  
- 1st Year: Collection of at least 20 insects, including 1 incomplete and 1 complete metamorphosis and including 10 different insects you haven’t exhibited before (at least 10 identified to family; including at least 10 orders) or a specific collection.*  
- 2nd Year: Collection of 25 insects, including, using ethyl acetate to kill and preserve 10 different insects you haven’t exhibited before (at least 10 identified to family; including at least 10 orders) or specific collections.*  
- 3rd Year: Collection of 40 insects, including 1 incomplete and complete metamorphosis, and learning how to use UV light for nighttime collection, and including 15 different insects you haven’t exhibited before (at least 20 identified to family; including at least 8 orders) or a specific collection.*  
OR  
- A report of things you have learned or researched (such as results of observations of the life cycle and behavior of the monarch butterfly, a story you wrote about an insect, etc.).  
OR  
- A poster (14”x 22”) or display relating to some activity in Level 3 (life cycle display, spider’s web, plastic mount, framed butterflies, etc.).  
**Collection:** Exhibit boxes should be approximately 18” x 12” or 25 insects or 18” x 24” for 50 insects, and about 3” to 3 ½” deep. Boxes should be covered with a plexiglass/clear plastic lid that can be removed. All insects must be mounted, labeled and identified to order, and should be organized by order. |

### Youth Materials:
- **National 4-H Curriculum**  
  *Teaming with Insects*  
  9-12(#08442)  
- **4-H Involvement Report** (#91910)  
- **4-H Project Record Book** (#91950)

### Volunteer Materials:
- **National 4-H Curriculum**  
  *Teaming with Insects Facilitators Guide*  
  (#08443)

### Classification materials:
- Field Guide to Insects of North Americas (Eaton/Kaufman)
- Field Guide to Insects and Spiders (Evans)

### Note:
*See “Special Directions” at the end of the Entomology Section for more information about this project.*

**County Requirements:**
Check with your County Extension office for more information.

**Support Materials:** Idaho 4-H Entomology page: [https://www.uidaho.edu/extension/4h/projects/entomology](https://www.uidaho.edu/extension/4h/projects/entomology)
To order National 4-H Curriculum visit: [http://www.4-hmall.org/Category/4-hcurriculum-entomology.aspx](http://www.4-hmall.org/Category/4-hcurriculum-entomology.aspx)

**Optional Supporting Materials:**
- Preparing Insect Specimens for Exhibit (#82358)
- Bug Guide from Iowa State University online at: [http://bugguide.net/node/view/15740](http://bugguide.net/node/view/15740)