



The life of insects tells many amazing stories. What is an insect? What do insects do?

- Learn basic facts about insects.
- Identify the insects that live near you.
- Learn about pest management.
- Participate in online insect monitoring surveys.
- Learn which insect is the biggest, fastest or strongest in the world.
- Learn about insects and how they benefit the environment.



Pass it on!

Now that you know how, share it with others. Here are ideas to get you started.

Communication

- Give a presentation on your favorite insect.
- Make a video on how to collect and pin insects.
- Teach your club how to identify common area insects.

Citizenship

- Monitor the city park for mosquito populations.
- Adopt and maintain a butterfly flower garden at a park.
- Do a presentation at a city council meeting about WINGS butterfly survey results in the community.

Here's what you can do all year!

Starting Out Basic/Level 1	Learning More Intermediate/Level 2	Expanding Horizons Advanced/Level 3
<ul style="list-style-type: none">• Learn what insects do for us.• Learn the basic parts of an insect.• Collect and identify different insects.• Learn about plants and other insects that insects may eat.• Learn about insect predators.• Learn how insects pollinate plants.• Examine parts of a plant and discover the function of the parts.• Learn about first aid for an insect bite.• Learn how to pin insects for display.	<ul style="list-style-type: none">• Learn how insects adapt to their environments.• Learn about insect life cycles.• Participate in developing a butterfly garden.• Learn to build insect traps.• Participate in the Butterfly WINGS, Lost Lady Bug or Pollinator: Live online learning activities.• Discover the different ways insects survive winter.• Learn how color influences insect life.	<ul style="list-style-type: none">• Start an insect collecting club.• Learn about insect control methods in forestry.• Do an insect survey for a local farmer or city garden.• Learn about integrated pest management for the yard or garden.• Experiment with insect populations in organic production.• Participate in beekeeping or start a honey business.• Mentor other youth in online survey activities.

Leadership

- Organize the activities to complete an insect survey.
- Help an adult teach a class about insects.
- Volunteer to help with garden tours and identify insects.

Entrepreneurship

- Offer to monitor and control insects in an organic garden.
- Start an insect pest-control business.



Here are other opportunities to explore entomology:

- Design an ant farm and show it at your school science fair.
- Collect insects and show them in your science class.
- Help other youth design and build insect traps.
- Job shadow at a pest control service or honey operation to explore careers that interest you.
- Contact your county NDSU Extension office for other local workshops, activities and events.
- Interview a beekeeper about his/her business.
- Interested in a college education in the area of entomology? Schedule a visit with North Dakota State University to explore these majors: (www.ndsu.edu/entomology/).



Exhibit Ideas

- Exhibit an insect collection.
- Make a poster about the parts of a insect and life cycle.
- Build an anatomically accurate model insect from clay.
- Do a poster about ants along with an ant farm exhibit.
- Create a logbook and picture record of one year of insect surveys in your area.
- Design and construct a butterfly flower garden.
- Complete an exhibit of the equipment needed for beekeeping.
- Prepare a poster to show how to harvest honey.
- Display different types of traps and insect-collecting methods.
- Make a cost/profit comparison about starting your own honey business.
- Do a poster about insect pests in organic gardening and how to control them.
- Keep an insect journal.
- Build a lady bug house.
- Complete a comparison of chemical and biological control of insects in a garden.

4-H Resources	Other Resources	Recordkeeping
<ul style="list-style-type: none"> • National 4-H Entomology Curriculum - Teaming with Insects, Level 1 (HBC101) - Teaming with Insects, Level 2 (HBC102) - Teaming with Insects, Level 3 (HBC103) - Teaming with Insects Facilitators Guide (HBC212) • National 4-H Butterfly Curriculum - Butterfly WINGS Youth Guide (HBC111) - Butterfly WINGS Leader Guide (HBC111) 	<ul style="list-style-type: none"> • Entomology Educational Trunks <p>Online Insect Monitoring</p> <ul style="list-style-type: none"> • Butterfly WINGS • Pollinator: Live • Lost Lady Bug • Kentucky Bug Connection 	<ul style="list-style-type: none"> • Planning for My Project Adventure (PA093) • ND 4-H Project Plan (PA095) • ND 4-H Plan of Action (PA096) • ND 4-H Participation for 11- 19 (PA098)

Learn more at www.ndsu.edu/4h/ or contact your county NDSU Extension office.