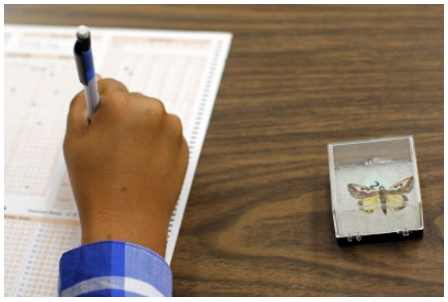
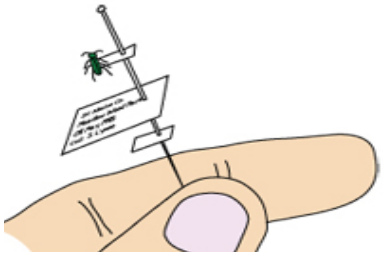
All About Discovery!™
College of Agricultural, Consumer and Environmental Sciences
Cooperative Extension Service
Extension 4-H Youth Development

Natural Science

NM 4-H Advanced Entomology Greentop

400.J-3 R-18





Welcome to the wonderful and amazing world of insects! This project will give you a more detailed look at insects and their kin. You will learn more about the close relatives of insects and what the main differences between the two are. You will also learn about how some insects evolved and what strategies they use to survive. Remember, insects are so numerous that you can observe and collect them almost anywhere – in the backyard, the garden, at the lake or in the open field. Members will take a detailed look into the differences between Arachnida, Insecta, Chilopoda, Diplopoda and Crustacea. Additionally, 4-Hers will look at the species within orders of Insecta, while exploring careers in entomology.

Materials Included in this project:

- *Insects Rule the Planet: Bugs, Butterflies, Beetles and Beasties* Project Book 100.J-10 (R-15)
- Record Form 300.A-7 (R-18)
- Advanced Entomology Greentop 400.J-3 (R-18)

Supplemental Material not included in this project:

- *Reference Material for 4-H Entomology Leaders*, 200 J-10
- *One Hundred Common Insects of New Mexico*, 200 J-11
- *www.nmffa.org :Activities: State Career Development: Contest Rules and Test Banks*
- Borror and White—Field Guide to the Insects, Peterson Field Guide series, Houghton-Mifflin, Boston •
- Milne and Milne—Audubon Society, Field Guide to North American Insects and Spiders, Knopf, New York

Project Activities

- Make a collection of insect eggs.
- Make a collection showing structural adaptability.
- Develop a written key for ten insects.
- Provide beneficial insects to a community garden, park, cemetery, etc.
- Help younger members properly identify insects.
- Lead a collection tour.
- Complete the project form and submit it in a record book to your local County Extension Agent.

Ideas for talks and posters

- How to collect, pin and spread insects.
- How insects breathe.
- Insect respiratory system.
- Insect skeletal system.
- Distinguishing moths, butterflies and skippers.

Fair Exhibit

- Make an insect collection consisting of 30 specimens from at least 10 different orders.

Final Note

- This project may take more than one year to complete.

Branum, 2007; Revised 2018