



U.S. Fish and Wildlife Service

Balcones Canyonlands National Wildlife Refuge

BROWNIES (2nd-3rd)
BUGS - Legacy Naturalist
Beginning 2011

Step 1:

- Bug or insect or spider, roly-poly
- How to tell Butterfly from Moth

Step 2 Bug Craft:

- Words to Know: Entomologist, Lepidopterist, Apiologist
- Make a Butterfly feeder

Step 3 Bugs in Action:

- Most Insects don't live long, but are busy.
- Choice #1: Watch 3 Insects (ant, beetle, roly-poly, milkweed insects, spider web)
- Choice #2: Find an Ant Trail: put stick/water/food in middle of trail, what distracts ants, follow trail to home

Step 4 Explore Bug Homes:

- Bugs live in all kinds of houses: hives, cocoons, tunnels in soil, wood, leaves (Show examples).
Insects transform (into butterfly or moth) inside cocoon.
What else goes on inside?
Draw what you think it looks like inside (Do later).
- Observe a jumping spider dive, jump, see. (if available.)

Step 5 Field Trip:

- See how many insects you can find.
- Use a magnifying glass/monoculars (for butterflies) & look on ground & up high in branches
- Learn about good bugs- pollinators, eat bad bugs
- Learn about bad bugs- eat trees & destroy plants
- Are some bugs both good & bad? (termites break down dead wood into healthy soil, but eat wood in our houses.)