



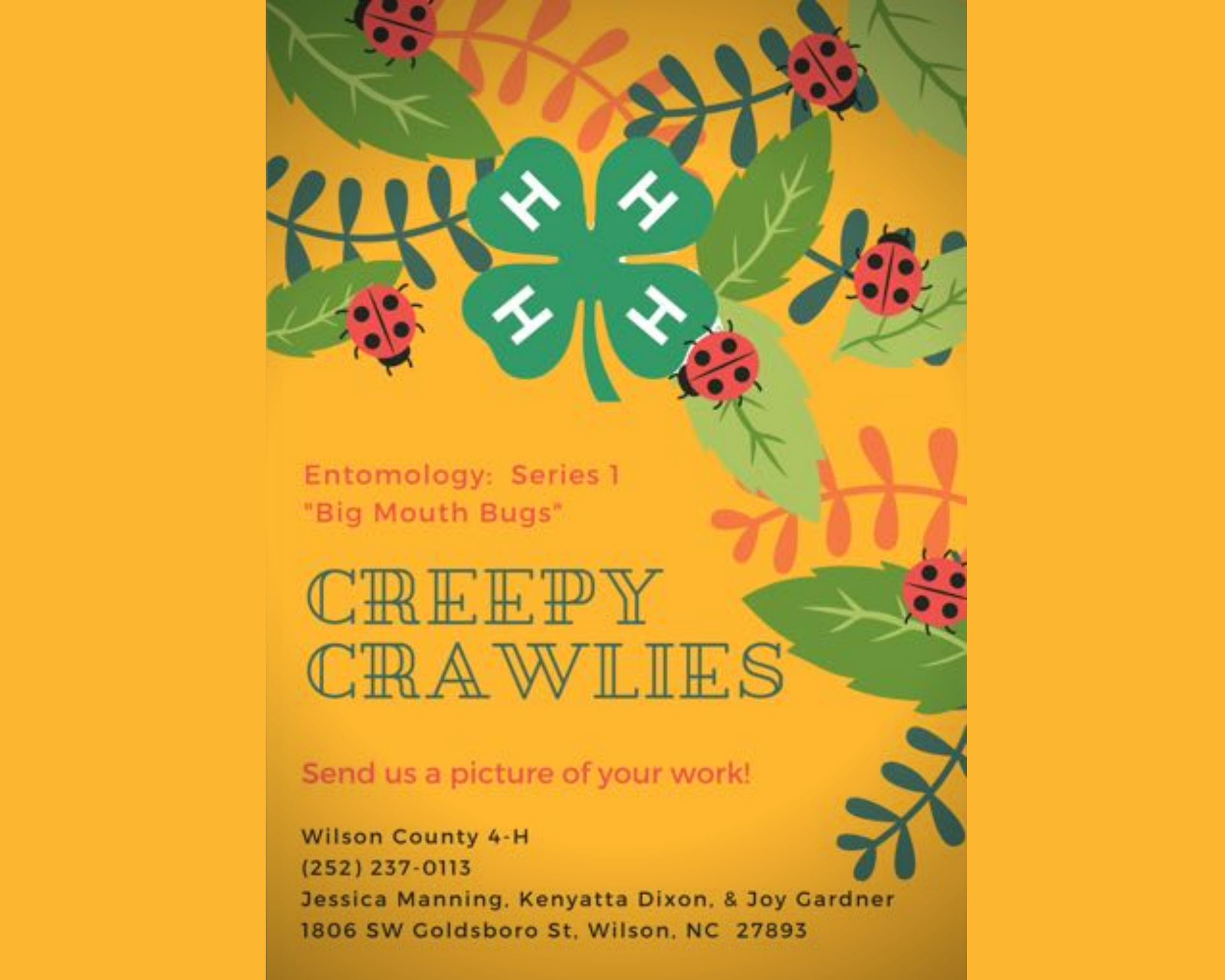
Learn by Doing!



Interactive Educational Series



Wilson County 4-H
wilson.ces.ncsu.edu

The background is a vibrant yellow-orange gradient. It is decorated with several green leaves of various shapes and sizes, some with dark green veins. Interspersed among the leaves are several red ladybugs with black spots and black legs. A central green four-leaf clover is prominent, with each leaf containing a white letter 'H'.

Entomology: Series 1
"Big Mouth Bugs"

CREEPLY CRAWLIES

Send us a picture of your work!

Wilson County 4-H
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Midwest Air Corporation
Entomology Systems Inc.
480CS BJ-0655

Entomology 1

Creepy Crawlies



Project Activity Guide

Name _____

County _____



Big Mouth Bugs

Activity: Compare insect mouth types with common objects.
 Life Skill: Understanding the importance of differences.
 Science Skill: Recognizing different insect mouth types.
 Success Indicator: Compare insect mouth parts.
 Supplies Needed: Pencil

Insects are the most successful group of animals. One of the reasons insects are so successful as a group is that they are very different from one to another. One of the differences is mouth types. In this activity you will match the mouth types with a common object that works much the same way.

BEEgin

Draw a line from each mouth type with a common object that works the same way. Then draw a line in the second box to match the mouth type to the insect and the insect to the food.

Mouth Type

Chewing

Piercing-Sucking

Siphoning

Sponging

Common Object

A.



Soft tissues used to mop up liquid

B.



Long thin mouth parts used to poke into food source

C.



Used to tear chunks of leaves of other type of food

D.



Long coiled tube used to suck up liquid

2

Insect Mouth type

Insect

Food

Chewing

mosquito

Piercing-Sucking

grasshopper

Siphoning

house fly

Sponging

butterfly

3

Go back to your insect model you made in Chapter 1. What type of mouth did you build? Is it like a real insect? If not, how could you change it to look like a real insect?

Incredible Insects Insects eat all sorts of unusual food. Here are just a few things many of them munch on: Egyptian scarabs, earth beetles, ladybugs, and...

Incredible Insects The desert termite can dig up to 1000 miles...

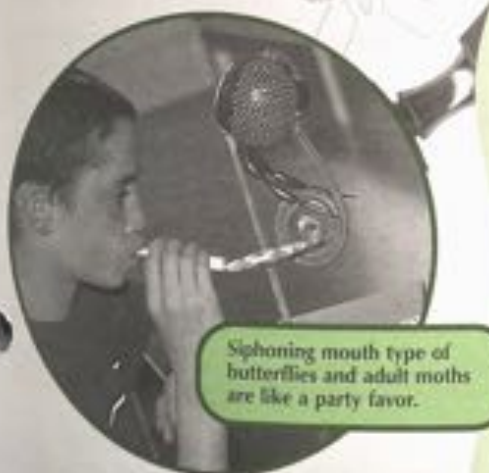
Talking It Over

Reflect

- What type of food does your insect model eat?
- Where did you look to find the information to complete the chart?
- What did you learn about the different mouth types?
- How is having different skills and abilities important in people?
- How does having different mouth types help insects survive?

Apply

- What would the world be like if everyone were the same?
- When has being different helped you?
- What different skills are needed for a basketball or soccer team?
- What would happen if everyone on your team only knew how to dribble?
- When has having a different skill from others helped you on your team?
- How can you improve the different skills you have?
- How can you show you value how others contribute to your project, club, or team?



Siphoning mouth type of butterflies and adult moths are like a party favor.

Insect Facts

Insect Mouth Types

Mouth type	Examples of Adult Insects with the Mouth Type
Chewing	Beetles, grasshoppers, crickets, cockroaches, chewing lice, earwigs, some springtails, silverfish, dragonflies, damselflies, termites, scorpionflies, ants
Piercing-sucking	Mosquitoes, true bugs, cicadas, aphids, fleas, sucking lice, scale insects, planthoppers, leafhoppers
Siphoning	Moths, skippers, butterflies
Chewing-lapping	Honey bees
Rasping-sucking	Thrips
Sponging	House flies, blow flies, face flies, fruit flies
Cutting-sponging	Horse flies, deer flies
Chewing-rasping	Booklice, barklice
Reduced or absent	Mayflies

Move slowly when collecting butterflies

Migrating On

1. Survey five people and ask them what they think about ants, cockroaches, ladybugs and butterflies. How did each person respond? Was it the same for all the insects? How do people decide which insects they like and which they don't?

Incredible Insects: The world of insects is amazing, a world of wonders that we have only just begun to explore.

Send us a picture or
video of your work!



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