

**FOOD, LAND, AND PEOPLE
FCAT ASSESSMENT QUESTIONS
PRE/POST TEST
Answer Key**

INVESTIGATING INSECTS

Please select the **best** answer.

1. SC.G.1.2.1, SC.G.1.2.2 (AA), SC.G.2.2.1 (AA), SC.G.2.2.1 (AA)

Many insects have mouth parts adapted for the type of food it eats. The chart below lists three insects and the type of food they eat.

Insect	Food
Bee	nectar
Green lacewing	body fluids of prey
Praying mantis	insects

Which type of mouthpart does a praying mantis have?

- A. **Chewing**
- B. Lapping
- C. Piercing
- D. Sucking

2. SC.G.1.2.1, SC.G.1.2.2 (AA), SC.G.2.2.1 (AA)

A praying mantis sits on a branch in a tree. A hungry robin flies by looking for food. The robin does not eat the praying mantis. What adaptations does the praying mantis have that helps it survive?

- A. The mantis runs away.
- B. **The mantis is camouflaged to look like a twig.**
- C. The mantis spits in the robin's eye.
- D. The mantis is brightly marked to let the robin know it has a stinger.

3. SC.H.3.2.4 (AA)

Farmer Brown discovers an unusually large population of aphids on his crops. He knows that aphids will destroy his crop. He does not want to use pesticides to kill the aphids. What can Farmer Brown do to control the aphid population?

- A. Cover the field for 3 days with black plastic.
- B. **Release 2000 ladybugs in the field.**
- C. Set up beehives around the field.
- D. Wash away the aphids with water.

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4. SC.H.1.2.2 (AA), SC.H.1.2.4 (AA), SC.H.3.2.2 (AA)

Mrs. Greene’s class is learning about insects. She takes her students outside in the schoolyard. There the students observe insect behavior and appearance. When they return to the classroom, they will discuss their observations. What is the best way for students to remember what they observed on their insect walk?

- A. Write your observation when you return to the classroom.
- B. Pick up the insects and bring them inside.
- C. Try to remember everything you observed.
- D. **Record notes and drawings in a science journal while on your walk.**

5. SC.H.1.2.1 (AA), SC.H.1.2.2 (AA), SC.H.1.2.4 (AA)

While walking through the woods, Johnny observed many unusual creatures that resemble insects. He records notes and sketches in his science journal.

Johnny’s Science Journal



Bee	Millipede	Spider	Scorpion
Wings	Long, segmented body	2 body parts	Segmented tail
3 body parts	30 pair legs	4 pairs wings	4 pairs legs
Wings	No wings	No wings	No wings
Stinger	No stinger	No stinger	Stinger

Johnny knows that insects have special physical features that separate them from other creatures. Which of the following would be classified as an insect?

- A. **Bee**
- B. Millipede
- C. Scorpion
- D. Spider

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Performance Task: LA.B.2.2.1

Many of today's farmers are looking for ways to control insect pests by using predatory insects to feed on harmful insects. Write a letter to a farmer persuading him or her to use predatory insects as a way to control the pest problem on the farm. Give specific examples of predatory insects that could help the farmer.

[Correct responses might include how pests can be controlled by using insects for biological control without using chemicals. The insects are natural predators so they do not upset the natural balance of populations. Examples include the ladybug, trichogramma wasp, green lacewing, praying mantis.]