LINKS TO AGRICULTURE

Mobile Ag Ed -

Science Lab



Bug Out



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How many colored states do not have * or \blacktriangle or \blacksquare ?

State Insects

Many states have officially designated state insects.

Use the information on this chart to complete the State Insect Activity Page.

| State | Insect | State | Insect |
|---------------|-------------------------------------|--------------------|--------------------------------|
| Alabama | Monarch Butterfly | Missouri | Honeybee |
| California | Dog-Faced Butterfly | Nebraska | Honeybee |
| Connecticut | Praying Mantis | New Hamp- shire | Ladybug |
| Delaware | Convergent Lady Beetle | New Jersey | Honeybee |
| Georgia | Honeybee | New York | Ladybug |
| Illinois | Monarch Butterfly | North Carolina | Honeybee |
| Iowa | Monarch Butterfly | Ohio | Ladybug |
| Kansas | Honeybee | Oregon | Swallowtail Butterfly |
| Maryland | Baltimore Checker Spot Butterfly | Pennsylvania | Firefly |
| Louisiana | Honeybee | Tennessee | Firefly |
| Maine | Honeybee | Utah | Honeybee |
| Massachusetts | Ladybug | Vermont | Tiger Swallowtail Butterfly |

Situation Answer Key (page 1)

<u>Situation1</u> – Cultural <u>Situation 2</u> – Biological <u>Situation 3</u> - Chemical <u>Situation 4</u> – Physical



Pest Control Officer - Pest Control Officers act as the frontline in protecting agriculture from unwanted or potentially harmful insects. They use insecticides to aid in the control of insect populations as well as natural remedies.

How Pest Control Officers Benefit Agriculture:

- **Pest Control Officers Study:**
- Help protect crops from being destroyed
- Entomology

Biology

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Work to educated farmers on DIY pest control







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See how temperatures change the activity of

insects!

You will need:

| Paper | Bug net |
|--------------|-------------|
| Pencil | Thermometer |
| Refrigerator | Mesh |

Tall clear plastic

cup

Step 1: Use your bug net or a plastic cup to capture an insect.

Step 2: Place a thermometer in a tall clear plastic cup with your insect, and cover the cup with mesh.

Step 3: Record the temperature, and observe the activity of the insect.

Step 4: Put the cup in the refrigerator until it is 15 degrees Fahrenheit cooler than the first temperature. Observe the behavior of the bug. Has it changed?

Step 5: Repeat the entire process at a temperature 15 degrees cooler.

Step 6: With the insect still in the cup, place the insect back into its home environment.

Step 7: Remove the plastic lid. Observe how long it takes for the insect to leave the cup

Record your Results:

Did it take long or no time at all for the insect to leave the cup?? Whv??

True Reason:

The body temperatures of insects are highly influenced by their environments. If the weather is warm, their body temperatures are warm. If the weather is cold, so are they. When their bodies become cold, they slow down and may even stop.





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