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Insect mAGic Kit

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Math

Lesson #1 Butterfly Wingspan Graphing

1. Create a graph using information provided in chart form.
2. Use calculations to answer questions.
3. Convert numbers from fractions to decimals and percentages.
4. Design a problem of their own using the given data.

Lesson #2 Insect Logic Puzzle

1. Make predictions and decisions based on data and communicate their reasoning.
2. Determine the insect reported on by each student using logical thinking and charts to aid in their findings.

Lesson #3 Beekeeper Economics

1. Calculate the incomes and profit of a beekeeping business.
2. Determine ways that the profit could be increased.

English Language Arts

Lesson #1 A Day in the Life of...

1. Interpret information from reading or video materials to produce a written composition.
2. Compose a journal entry related to bees and/or the bee-keeping industry.

Lesson #2 Insect Riddles

1. Interpret information from reading materials to produce a written riddle.

Lesson #3 The Career "ist" Search

1. Identify occupations that can be related to insects.
2. Write a composition about a career that can explain its importance to insects and agriculture.

Lesson #4 The Honey Files

1. Identify anatomical parts of a bee.
2. Describe the honey making process.
3. Describe bee behavior.

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Social Studies

Lesson #1 Beetle Boll Weevil

1. Define Boll Weevil, explain why it is a beetle, and explain how the weevil is a harmful insect.
2. Describe the benefits of farming multiple crops instead of a single crop.
3. Identify the recovery efforts that helped save farmers in the south from losing everything to the Boll Weevil.

Lesson #2 Butterfly Migration

1. Explain the purposes and reasons for migration of the Monarch butterfly.
2. Describe and explain the Methuselah generation of the Monarch butterfly.
3. Describe the similarities and differences between migrations and vacations.
4. Map the routes taken by Monarch butterflies to their hibernating areas.

Lesson #3 Honey Bee Society

1. Describe the different types of bees that live in a honey bee hive.
2. Explain the duties of all types of bees in a honey bee hive.
3. Describe and explain how honey bees communicate.
4. Explain the different dances done by honey bees and why they are done.
5. Define what honey bees eat.

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Science

Lesson #1 Life Cycles

1. Identify the stages of complete and incomplete metamorphosis.
2. Explain the difference between complete and incomplete metamorphosis.

Lesson #2 Examination of the body of a grasshopper

1. Identify basic characteristics of the body of a typical insect.
2. Discuss what they have observed and learned about this insect as it relates to Illinois' agriculture.

Lesson #3 What's for Lunch

1. Design a simple food chain.
2. Describe why organisms fall where they do in a food chain.
3. Explain any survival features an insect in the food chain might have.

Lesson #4 Integrated Pest Management

1. Define integrated pest management and explain how this approach may be applied in both agricultural and non-agricultural settings.
2. Identify management options and resulting consequences in an agricultural operation.
3. Apply principles of integrated pest management to solve a historic tragedy.