

The Community Orchard

Corn Maze Tour

New



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The Community Orchard Corn Maze Tour allows teachers to support multiple areas of the Iowa State Academic Standards all in one trip. This packet provides some different state standards for various grade levels as well as how these standards can be applied to The Community Orchard Corn Maze Adventure. On the following pages specific Iowa State Academic Standards will be stated in bold followed by how they are supported by our farm tour.

The Corn Maze Tour focuses on two main elements: Teamwork and Agricultural Education. Teamwork is essential for groups to find and decipher clues provided by the corn maze. This teaches students how to effectively communicate and collaborate to make decisions as a group. As groups work through the corn maze more pieces of the map become uncovered. The corn maze is a great tool we use to present educational information in an entertaining format. This year's corn maze tour allows students to learn all about bees and pollination through a maze we call "The Amazing Bee." Students will explore the corn maze, collect answers, learn to navigate, collaborate, and succeed while having fun outdoors on our farm.

Did you know?

The Community Orchard is a 100 acre fruit farm that grows over 15 varieties of apples every year on over 5,000 trees.

Iowa State Academic Standards

Pre K

Social Studies - SS.K.13. Create a route to a specific location using maps, globes, and other simple geographic models.

Science - K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.

Students, with the assistance of an adult, must use the maps of the corn maze to find where each of the game answers are located as well as where they currently are in the corn maze. They must work together as a team to make decisions in order to get to their final destination, the exit. This educational tour allows students to learn about what bees and beehives need for survival.

Grade 1

Social Studies - SS.1.16. Using maps, globes, and other simple geographic models, compare and contrast routes for people or goods that consider environmental characteristics.

Literacy - Use the illustrations and details in a text to describe its key ideas. (RI.1.7) (DOK 2)

Literacy - Ask and answer questions about key details in a text read aloud or information presented orally or through other media. (SL.1.2) (DOK 1,2)

Students, with the assistance of an adult, must use the corn maze map to figure out where they are currently located and the best way to get to the next game station. They must work together as a team to make decisions to find the best route to get to each game station and eventually the exit. By the end of their exploration through the corn maze students should be able to share key facts they have learned about the bee from the pictures and facts provided by the corn maze.

Grade 2

Social Studies - SS.2.12. Identify how people use natural resources to produce goods and services.

Social Studies - SS.2.16. Using maps, globes, and other simple geographic models, evaluate routes for people or goods that consider environmental characteristics.

Students will get to see how people use bees to produce honey and other bee based products. With the assistance of an adult, students must use the corn maze map to figure out where they are currently located on the map and work together as a team to make decisions in order to figure out the best routes to get to each game station and eventually the exit.

Grade 3

Social Studies - SS.3.13. Identify how people use natural resources, human resources, and physical capital to produce goods and services.

Science - 3-LS2-1. Construct an argument that some animals form groups that help members survive.

Students will learn how people use bees to develop other goods and services for sale as well as how bees help in the production of other goods and services through pollination. Students will learn about the structure of a bee colony and how each kind of bee relies on one another for survival.

Iowa State Academic Standards

Grade 4

Science - 4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

Literacy - Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text. (RL.4.1) (DOK 1,2,3)

Students will learn all about the characteristics bees have in order to survive and grow in their colony and environment. Students will be able to pull key details about bees from the activities provided in the corn maze while also being able to make inferences about other functions or jobs of a bee.

Grade 5

Science - 5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.

Literacy - Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text. (RL.5.1) (DOK 1,2,3)

Students will get to see how bees eat and thrive from flowers grown by the energy from the sun. Students will be able to pull key details about bees from the activities provided in the corn maze while also being able to make inferences about other functions or jobs of a bee.

Grade 6

Science - MS-ESS2-1. Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.

Literacy - Determine a theme or central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments. (RL.6.2) (DOK 2,3)

Students will get to see how the sun and rain affects plants and flowers and how bees take the pollen and nectar from those plants to develop food for their colonies. Students should be able to pick out a central theme from the tour, bees, and provide a brief summary of the key points to support what they have learned about bees.

Grade 7

Science - MS-LS2-1. Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

Science - MS-LS2-3. Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.

Students will see how the resource availability of flowers and other plants can affect the bees, specifically their diets, and their survival. Students will learn the difference between living and nonliving parts of a bees ecosystem and how each part plays an essential role in a bees life. Students will see how energy flows from the sun to the flowers which feed the bees that make honey.

Iowa State Academic Standards

Grade 8

Science - MS-LS4-6. Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.

Students will see how natural selection effects the bees as well as their food source, flowers. Bees have several traits that can be affected by natural selection that you may not even think of! Students will see how different traits are affected through evolution in the wild versus managed bee hives.

High School

The Corn Maze Tour allows students to interact with each other to improve their communication and employability skills. For high school students, we gear the corn maze more towards group bonding creating a great activity for student councils, FFA groups, and so on to develop key teamwork skills while also learning something about bees they may not have known before.

Employability Skills

Essential Concept and/or Skill: Communicate and work appropriately with others to complete tasks.

Work appropriately and productively with others.

- Share thoughts and ideas with others.
- Work positively and effectively with others.
- Respect others.
- Cooperate with others.
- Acknowledge own and other's good efforts.

Use different perspectives to increase innovation and the quality of work.

- Generate ideas
- Are aware of others' feelings and opinions.
- Appropriately accept constructive feedback.

Use all the appropriate principles of communication effectively.

- Listen to others.
- Ask appropriate questions.
- Express ideas.

Along with specific Social Studies, Science, and Literacy requirements, employability skills under the Iowa State Academic Standards are supported for all grade levels. Listed above are some of the skills students will use as they work in their groups to find all the clues and get through the corn maze.

Note:

For this tour we recommend an adult or chaperone for every 4 to 5 kids depending on grade level. To help students of different age levels learn we have developed a variety of programs to tailor to different ages.