Adventures in Michigan Agriculture

ACTIVITY BOOK

Michigan Agriculture in the Classroom
www.miagclassroom.org
AN INTRO TO MICHIGAN AGRICULTURE

Michigan farmers grow a variety of commodities all over the Great Lakes State! Michigan ranks #1 in the nation for the following: Dry Black and Cranberry Beans, Begonias, Blueberries, Tart Cherries, Pickling Cucumbers, Easter Lilies, Geraniums, Low Fat Ice Cream Mix, Impatiens, Petunias, and Squash. Michigan also grows more than 300 commodities total which makes us #2 in the nation for being the most agriculturally diverse!

This activity book is full of worksheets for grades K-2 and 3-5; each lesson focuses on one of the following commodities:

- GRAIN CROPS
- FORESTRY
- SHEEP
- FRUITS AND VEGETABLES
- EGGS
- FLORICULTURE
- HONEY
- DAIRY
- CHRISTMAS TREES
- PIGS

Michigan Agriculture in the Classroom

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**Planting the Seed**

**WHAT DO THESE CROPS BECOME?**
Michigan farmers raise corn, soybeans, and wheat. Products we use every day are made from these grains. The items listed below are made from either corn, soybeans, or wheat!

Can you find all of these items in the word search? One has been done for you.

### Word Bank

**Corn**
- POPCORN
- CORN SYRUP
- CORN STARCH

**Soybeans**
- BABY FOOD
- CRAYONS
- SHAMPOO

**Wheat**
- FLOUR
- BREAD
- CEREAL

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Farmers harvest around 5 million acres of corn, soybeans, and wheat every year in Michigan. One acre is about the same size as a football field — that’s almost 5 million football fields of grain!
WHAT DO THESE CROPS BECOME?

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Word Bank

Corn
- POPCORN
- CORN SYRUP
- CORN STARCH
- ETHANOL
- TACO SHELLS
- GUM

Soybeans
- BABY FOOD
- CRAYONS
- SHAMPOO
- TOFU
- PET FOOD
- PLASTIC

Wheat
- FLOUR
- BREAD
- CEREAL
- PIZZA CRUST
- PASTA
- COOKIES

DID YOU KNOW?

Farmers harvest around 5 million acres of corn, soybeans, and wheat every year in Michigan. One acre is about the same size as a football field — that’s almost 5 million football fields of grain!
WHERE IS IT GROWN?
Michigan farmers grow different types of fruits and vegetables all over the state! Each region of our state is best at raising certain crops depending on the weather, soil type, or processing factories located nearby. Match the produce to where it is grown best around our state. The first one has been done for you.

Word Bank
APPLES
POTATOES
CRANBERRIES
FLOWERS
GRAPES
SUGAR BEETS
CHERRIES

Cranberries

More than 3,000 Michigan farms grow vegetables each year for processing or fresh sales! Michigan farmers grow more asparagus, cucumbers for pickling, dry black beans, small red beans, and winter squash than farmers in any other state.
Michigan grows different fruits and vegetables all over the state! Match the produce to where it is grown. One has been done for you.

**WHERE IS IT GROWN?**

**Word Bank**
- Carrots
- Potatoes
- Apples
- Cranberries
- Flowers
- Grapes
- Sugar Beets
- Blueberries
- Asparagus
- Dry Beans
- Cherries

More than 3,000 Michigan farms grow vegetables each year for processing or fresh sales! Michigan farmers grow more asparagus, cucumbers for pickling, dry black beans, small red beans, and winter squash than farmers in any other state.
What’s all the Buzz?

WHAT PATH DOES THE BEE NEED TO TAKE?

Honey bees are raised all over Michigan! Farmers use honey bees to pollinate their crops and to make honey.

Using the maze below, help the worker bee find its way to the flower and hive!

DID YOU KNOW?

87.5% of flowering plants in Michigan depend on bees. This means they would not be able to live or produce any flowers or fruit without the help of bees!
A SINGLE BEEHIVE PRODUCES 60 POUNDS OF...

Honey bees are raised all over Michigan, farmers use honey bees to pollinate their crops and to make honey.

Can you crack the code below? Unscramble the following words, putting one letter in each space. Then unscramble the circled letters to answer the question below.

OLNLPTNAIIO

LRWFEO

HVIE

EEB

CONYBMEOHO

ONE BEEHIVE WILL PRODUCE 60 POUNDS OF...

87.5% of flowering plants in Michigan depend on bees. This means they would not be able to live or produce any flowers or fruit without the help of bees!
Find the Forest

HOW CLOSE IS THE FOREST?
Michigan forests supply us with clean air, water, and wood. Some farmers raise and harvest trees to build items that are all around you!
Can you find all seven items listed in the classroom below that are made from trees?

Word Bank
BASEBALL BAT
PAPER
PENCILS
POSTER
BOOK
DESK
CHAIR

Michigan trees are also used to create wood, maple syrup, firewood, laundry soap, tires, postage stamps, toothpaste, nail polish, and chewing gum!
HOW CLOSE IS THE FOREST?

Michigan forests supply us with clean air, water, and wood. Some farmers raise and harvest trees to build items that are all around you! Can you find all 10 items in the classroom below that are made from trees?

**Word Bank**
- CARDBOARD BOX
- GUITAR
- PICTURE FRAME
- BASEBALL BAT
- PAPER
- PENCIL
- POSTER
- BOOK
- TABLE
- CHAIR

**DID YOU KNOW?**
Michigan trees are also used to create wood, maple syrup, firewood, laundry soap, tires, postage stamps, toothpaste, nail polish, and chewing gum!
WHAT CAME FIRST, THE CHICKEN OR THE EGG?
Michigan farmers supply eggs that can be found in grocery stores and restaurants in your community!
Can you name the stages of a chicken’s life cycle? Using the word bank below, place each stage in the correct order!

Word Bank
CHICK
HATCHLING
CHICKEN
EGG

A Chicken’s Life Cycle
One chicken lays approximately one egg per day. Her living conditions such as food, weather and amount of daylight can affect the number of eggs she lays each day.
FINISH THE DRAWING BELOW

By connecting the dots below, discover what farm animal is raised all over Michigan and plays an important role in many daily diets.

WHAT ANIMAL AM I?

This animal lays approximately one egg per day. Her living conditions such as food, weather and amount of daylight can affect the number of eggs she lays each day.
Moo-velous Patterns

SCOOPING ICE CREAM OR BUILDING YOUR ICE CREAM CONE

Michigan dairy farmers supply milk to be used in delicious ice cream!
Using the patterns listed on each cone, color each ice cream scoop to match what is listed below it. One is started for you.

Michigan dairy cows help make 438 million gallons of ice cream each year!

What is your favorite flavor of ice cream?
What do cows produce?

MOO-ES Code

Name the most popular kind of ice cream.

MOO-ES Code

What color is the popular Holstein cow?

MOO-ES Code

What are baby cows called?

MOO-ES Code

What is America’s favorite dessert?

MOO-ES Code

What is the slogan used to promote eating dairy products?

MOO-ES Code

Name three dairy products used in the dairy slogan.

MOO-ES Code

Michigan dairy cows help make 438 million gallons of ice cream each year! What is your favorite flavor of ice cream?
PARTS OF A PIG

Michigan is home to about 2,000 pig farms; these farmers make sure their pigs are happy and healthy every day.

Fill in the missing letters to spell and label a pig’s body parts!

Word Bank
TAIL
LEG
EYE
NOSE
EAR
MOUTH

---

A baby pig is called a piglet. There are about 10 piglets in each litter.
Michigan is home to about 2,000 pig farms; these farmers make sure their pigs are happy and healthy every day.

Use your math skills to solve each equation. Color each section based on the colors in the Color Bank.

**Color Bank**
- 2 = PINK
- 3 = ORANGE
- 4 = BLUE
- 5 = PURPLE
- 6 = GREEN

A baby pig is called a piglet. There are about 10 piglets in each litter.
COUNTING SHEEP

Some Michigan farmers raise sheep for the wool they produce. Like us, sheep need haircuts too! By shearing the lambs, the farmer can use the wool for things like clothing!

In each picture below, count the sheep who have jumped over the fence and write the answer on the line provided.

In total, about 400,000 pounds of wool is shorn from 65,000 sheep in Michigan each year! One pound of wool can make 10 miles of yarn.
IDENTIFYING THE PARTS OF A SHEEP!

Some Michigan farmers raise sheep for the wool they produce. Like us, sheep need haircuts too! By shearing the sheep, the farmer can use the wool for things like clothing!

Can you identify the parts of a baby sheep (a lamb) listed below?

Word Bank

- HEAD
- EYES
- EARS
- MUZZLE (NOSE)
- POLL (TOP OF HEAD)
- KNEE
- HOOF
- BELLY
- SHOULDER

DID YOU KNOW?

In total, about 400,000 pounds of wool is shorn from 65,000 sheep in Michigan each year! One pound of wool can make 10 miles of yarn.
THE PARTS OF A PLANT
Michigan farmers raise many kinds of flowers each year. These plants are typically grown in greenhouses with glass walls and a glass roof to keep the inside warm, which means farmers can grow plants all year round!
Using the word bank below, label the four main plant parts.

Word Bank
STEM
LEAF
PETALS
ROOTS

DID YOU KNOW?
Did you know that Michigan grows more Begonias, Easter Lilies, Geraniums, Impatiens, Potted Hostas, and Petunias than any other state in the nation? Fun fact: The flower above is a Easter Lily!
A FLOWER’S LIFE CYCLE!

Michigan farmers raise many kinds of flowers each year! These plants are typically grown in greenhouses with glass walls and a glass roof to keep the inside warm, which means farmers can grow plants all year round!

Draw each step of a flower's life cycle in the boxes below! One step has been done for you.

Did you know that Michigan grows more Begonias, Easter Lilies, Geraniums, Impatiens, Potted Hostas, and Petunias than any other state in the nation? Fun fact: The flower above is a Easter Lily!
CHRISTMAS TREE COUNTING!

On average it takes Michigan Christmas tree farmers seven years to grow each tree! Michigan is one of the top growers of Christmas trees in the nation. Can you count the number of each type of Christmas ornament hung on the tree below? Once you are done counting, color your tree!

Michigan grows a variety of Christmas trees each year. The most common varieties grown are Balsam Fir, Douglas-fir, Fraser Fir, Scotch Pine, and the White Pine — our state tree. Do you know what kind of tree your family picks?
CHRISTMAS TREE I SPY

On average it takes Michigan Christmas tree farmers seven years to grow each tree! Michigan is one of the top growers of Christmas trees in the nation.

Can you count how many of each tree is shown below?

DID YOU KNOW?

Michigan grows a variety of Christmas trees each year. The most common varieties grown are Balsam Fir, Douglas-fir, Fraser Fir, Scotch Pine, and the White Pine — our state tree. Do you know what kind of tree your family picks?