

DAY 2 READING/SOCIAL ASSIGNMENTS

READING

_____ READ *ICE FISHING*

_____ ANSWER *ICE FISHING* QUESTIONS

_____ COMPLETE THE POSTER PAGE

_____ 30 MINUTES OF AR READING

SOCIAL

_____ READ *CAN YOU SPOT THE HEALTHY FOODS?*

_____ READ *THE FIGHT FOR WOMEN'S RIGHTS*

_____ COMPLETE THE QUIZ PAGE

OTHER ASSIGNMENTS YOU CAN WORK ON...

-STUDY WEEKLY VOCAB WORDS

-WORK ON THE WEEKLY IXLs

-WORK ON BODDLE ASSIGNMENTS

DAY 2 Math/Science

ASSIGNMENTS

Math

_____ Compete Mastering Math Facts

_____ Complete the Multiplication 2x2 (B)

_____ Complete Subtraction Sheet

_____ Practice Math Facts

Science

_____ Read *The Butterfly Protectors*

_____ Play OUTSIDE for 30 minutes

OTHER ASSIGNMENTS YOU CAN WORK ON...

- Get Green Light in Reflex

-Work on the weekly IXLs

-Study Island (if assigned)

Name _____ Date _____

Ice Fishing

Have you ever been fishing? Chances are, if you have been fishing, you chose to go when the weather was warm. Many fishermen and women tend to fish in the summer, spring or fall months. And while people who fish might have stories of fishing in the hot sun or even the pouring rain, it might be harder for you to find someone who has gone ice fishing in the wintertime.

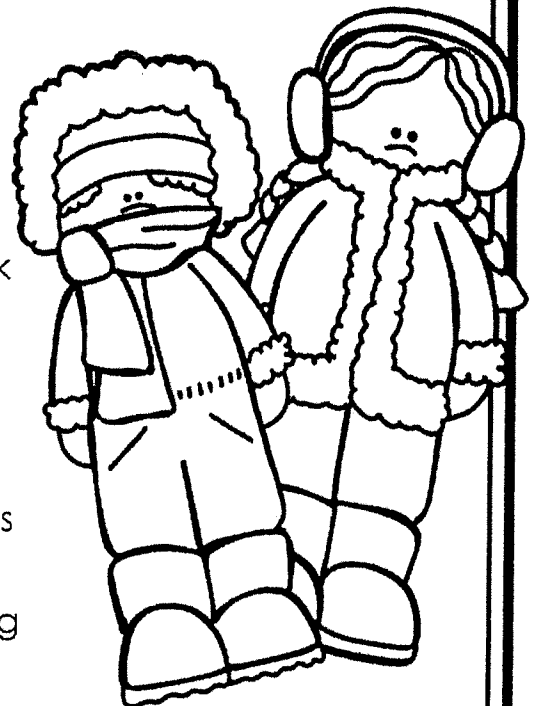
Ice fishing is a great way to take your fishing hobby into the winter months. Here in America, you can find ice fishers in the northern parts of the country. In the upper Midwest, for example, lakes freeze enough to keep fishermen safe and on top of the ice.

About one third of licensed fishermen and women in the northern parts of America go ice fishing. In fact, in the northern Midwest states, surveys have shown that ice fishing is ranked as the fourth favorite winter activity! Sledding, snowmobiling and ice skating were the only activities that beat it.

So what is ice fishing? Just because lakes freeze doesn't mean that the fish leave to go to warmer climates. Instead, the fish are still in the body of water, but just hanging out below the new ice that has frozen on the top of the lake. When anglers, or people who fish, want to go ice fishing, they must cut through the ice to make a hole to fish in. There are still plenty of fish to catch in the wintertime. People in Wisconsin catch an average of 14 million fish during ice fishing season!

Ice fishing requires a bit more safety precautions than regular fishing. Never go ice fishing alone if you are a beginner. It is important that you go with someone who is experienced and can show you how to be safe and keep you out of the freezing water. In order to be sure that ice will not crack when they walk on it, anglers pay careful attention to the signs and flags that are placed on bodies of water by the Department of Natural Resources. You should never walk on ice that is thin or unsafe.

If you love fishing and ever visit the northern parts of America during the wintertime, ice fishing might be something fun that you would enjoy watching or doing yourself.



Name _____ Date _____

Ice Fishing

Answer each question using evidence from the text to support your answer.

1. Why are ice fishers primarily found in the northern parts of America?

- 2. What evidence from the text supports the idea that ice fishing is a popular pastime in the northern parts of America?

3. Infer why ice fishing requires more safety regulations than regular fishing.

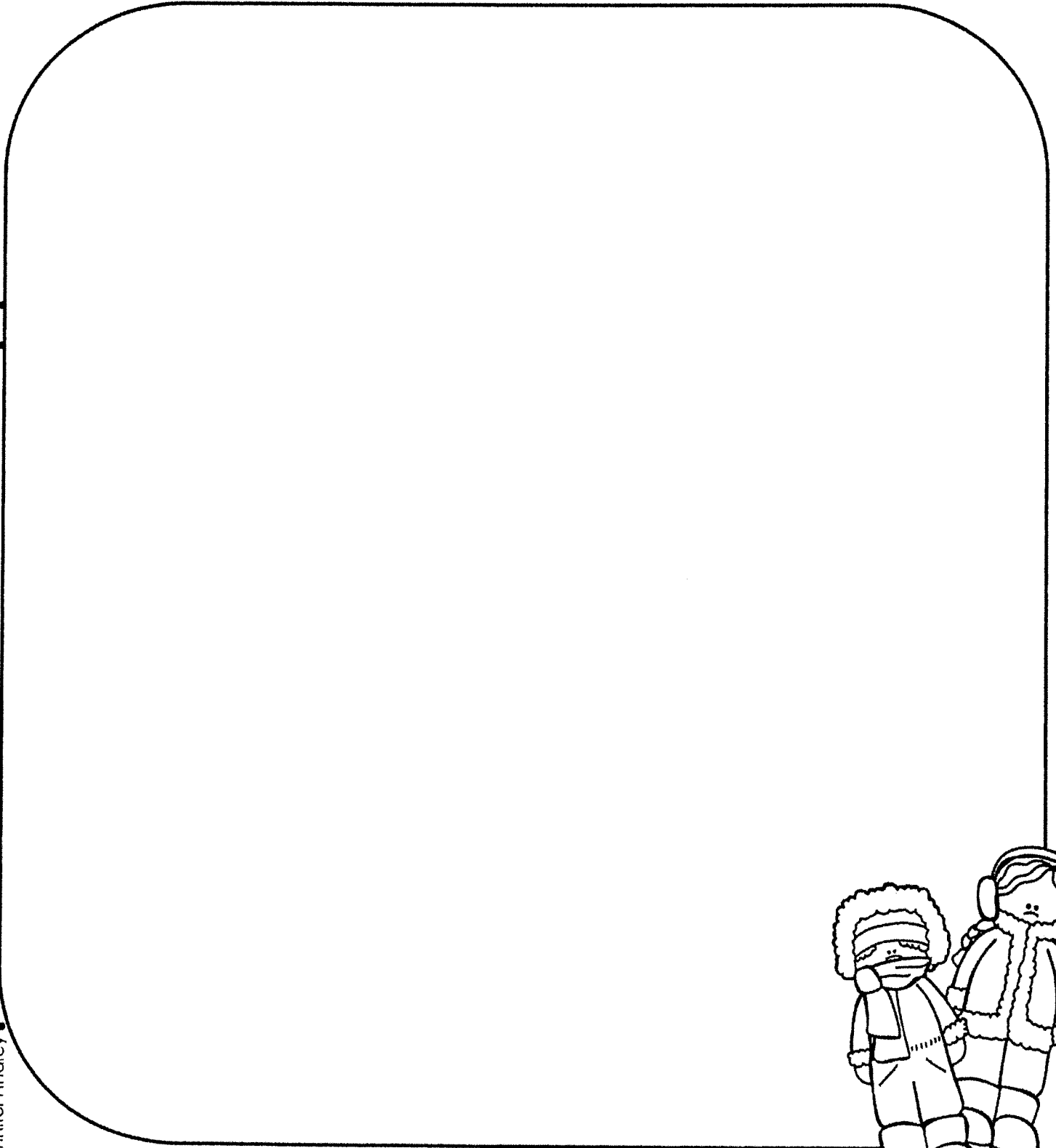
4. What purpose do the signs and flags placed by the Department of Natural Resources serve? Why are these signs important?



Name _____ Date _____

Safety First!

Create a poster that teaches ice fishers how to be safe while ice fishing.
Include tips and details from the text in your poster..



CAN YOU SPOT HEALTHY FOODS?

The U.S. government wants to change the definition of a "healthy" food. Will it help improve what people eat?

AS YOU READ, THINK ABOUT:

What are the benefits of eating healthy?

You just got home from school and your stomach is growling. You open the fridge, looking for a healthy snack. But you aren't sure what to choose.

If that sounds like you, the Food and Drug Administration (FDA) wants to help. The FDA is a part of the U.S. government responsible for protecting Americans' health. It recently proposed changing the criteria that determine which foods can be labeled "healthy."

The rules differ depending on the type of food. According to the proposal, a healthy cereal must have no more than 2.5 grams of added sugars per serving. Many sugary cereals have more than four times that amount! It must also have no more than 230 milligrams of sodium, a mineral in salt.

The FDA's goal is to help Americans spot healthy foods—and make better choices.

WORDS TO KNOW

criteria noun, plural: rules used to make a decision or evaluate something

nutrients noun, plural: substances that people, animals, and plants need to grow and survive

Fueling Your Body

What you eat affects your health. Yet many kids—and adults—fall short in getting

READ THE LABEL

Learning to read nutrition labels on packaged foods can help you make healthy choices. Here's what to look for.

This container has 2 servings. If you eat the whole container, multiply each figure below by 2.

Nutrition Facts	
2 servings per container Serving size 2.5 cup (60g)	
Calories	160
% Daily Value*	
Total Fat 1g	1%
Saturated Fat 0.5g	1%
Trans Fat 0g	0%
Cholesterol less than 5mg	1%
Sodium 80mg	3%
Total Carbohydrate 31g	11%
Dietary Fiber 0g	0%
Total Sugars 20g	40%
Includes 17g Added Sugars	34%
Protein 2g	4%
Vitamin D 2mcg	4%
Calcium 10mg	2%
Potassium 280mg	6%
Vitamin A 170mcg	19%

The amount of sodium is listed in milligrams. Experts recommend that kids ages 9 to 13 limit sodium to 1,800 milligrams per day. That's less than 1 teaspoon.

This yogurt has 17 grams of added sugars per serving. Kids should aim for no more than 25 grams of added sugars per day.

Vitamin A helps your heart, lungs, and other organs work properly.

Behind the Changes

Currently, about 5 percent of the packaged foods you see in stores are labeled "healthy."

Companies can add the word to their product only if it meets the government's criteria.

But the FDA says its existing definition, written in 1994, is outdated. For one thing, it doesn't include limits on added sugars. Yet scientists know that downing too many sweets can lead to type 2 diabetes, tooth decay, and more. That's why most sweetened foods would no longer qualify as "healthy" under the new proposal.

So what *would* be considered "healthy"? Unprocessed, natural foods like nuts, beans, fruits, and veggies would be on the list. Whole grain pasta, eggs, and fish would qualify too. So would certain low-fat yogurts and cheeses.

So does that mean you have to give up cupcakes or chips entirely? Wood says no—there's nothing wrong with enjoying treats every now and then. Just be sure to eat healthier foods too, like veggies with hummus or yogurt topped with berries. "Focus on balance," Wood says.

—by Rebecca Zissou

Veggie sticks have fewer nutrients than whole veggies. But both can be part of a healthy diet.



Learn more about how to form healthy eating habits.

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didn't get nationwide attention until 1848, after a meeting in Seneca Falls, New York.

"This convention was the first public meeting of its kind," says Janine Waller. She works at the Women's Rights National Historical Park. "It was dedicated solely to the rights of women."

The meeting set the stage for the women's suffrage movement.

Not Equal
One of the organizers was Elizabeth Cady Stanton. Her father was a lawyer and a judge. Stanton often helped out in his office. But she was frustrated that she could never become a lawyer herself.

"She couldn't have the job she wanted or really be the person she wanted," Waller says.

Back then, few women worked outside the home and most colleges didn't accept women. And, under the law, women could not own any property.

"Anything a woman had didn't belong to her—books, clothes, jewelry all belonged to her nearest male relative," Waller explains.

Making a Statement
Stanton was tired of being treated unfairly and knew other women were too. In 1848, she

history. Voting was one of the many rights that only White men had at the time.

Over the years, small groups of women spoke out about the unfair treatment. But the issue worked early in America's

Imagine your class was choosing a president and girls weren't allowed to vote. It may be hard to believe, but that's how national elections worked early in America's

Women gathered in New York 175 years ago to fight for equality. They changed the course of history.

Waller explains.

Stanton was tired of being treated unfairly and knew other women were too. In 1848, she

worked early in America's



teamed up with activist Lucretia Mott and three others to plan a meeting.

The two-day gathering started on July 19, 1848. About 300 people—including many men—showed up. Stanton read a statement she had helped write called the Declaration of Sentiments. It was modeled after a famous document—the Declaration of Independence. It included a list of resolutions that spelled out many of the rights that women were denied.

People agreed with nearly everything Stanton said. But one word spread about what took place in Seneca Falls. Some

item caused a stir. When she said that women should be able to vote, some people were shocked and angry.

Stanton got support from the only Black person invited to the meeting. Frederick Douglass was a formerly enslaved man who had become an activist. He said that without the right to vote, women would not be able to change unfair laws. In the end, 100 people signed the Declaration of Sentiments.

More Work to Do
Word spread about what took place in Seneca Falls. Some

people didn't take the meeting seriously. But over the following decades, the fight continued. Women of all ages, races, and backgrounds organized meetings, wrote to their lawmakers, and protested.

In 1920, the 19th Amendment to the U.S. Constitution was approved. Women in the U.S. were granted the right to vote. Words Stanton spoke at Seneca Falls were finally coming true.

"The right is ours. Have it we must. Use it we will."

WORDS TO KNOW
suffrage noun. the right to vote
resolutions noun, plural. formal statements of the wishes, goals or decisions of a person or group

This is based on the most famous phrase in the Declaration of Independence. The big difference is the inclusion of the words *and women*.

The Declaration of Independence mentions unfair treatment by King George III of England. This talks about the unjust power men had over women.

We hold these truths to be self-evident that all men and women are created equal...

The history of mankind is a history of repeated injuries and usurpations on the part of man toward woman, having in direct object the establishment of an absolute tyranny over her.

He has never permitted her to exercise her inalienable right to the elective franchise.

He has compelled her to submit to laws, in the formation of which she had no voice.

WORDS for WOMEN

Inspired by the Declaration of Independence, the Declaration of Sentiments called for equality for women. Here are some key passages.

Women wanted the right to "elective franchise," or the right to vote.

Women were expected to obey laws, but had no say in choosing the leaders who made them.

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Unjust things taken away from someone

Unfairly unfair treatment

Unfairly impossible to take away or give up

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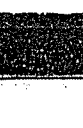
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CELEBRATE Women's History

Here are some key milestones in the fight for women's rights.

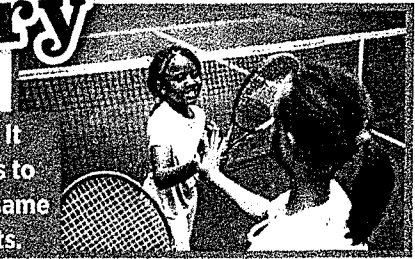


1917

Jeannette Rankin of Montana becomes the first woman to serve in Congress.

1972

Title IX becomes law. It requires public schools to give girls and boys the same opportunities in sports.



1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030

1920

The 19th Amendment to the U.S. Constitution is passed. It grants women the right to vote.



1940-1945

Millions of women begin to enter the workforce for the first time. They take over jobs held by men who are preparing to fight in World War II.

2022

Ketanji Brown Jackson joins the U.S. Supreme Court. Four of the nine justices are now women, the most ever to serve at the same time.



1 Who was the first woman to serve in Congress?

- A Amy Coney Barrett
- B Elena Kagan
- C Jeannette Rankin
- D Sonia Sotomayor

2 How many years ago were women granted the right to vote?

- A 106
- B 103
- C 83
- D 51

KNOW THE NEWS

PAGES 2-3

Can You Spot Healthy Foods?

- 1** What is the main idea of the article?
 - A Most kids get too much sugar and sodium.
 - B Processed foods have many added ingredients.
 - C The U.S. government has proposed changing the definition of a "healthy" food.
 - D Eating a lot of sweets can lead to tooth decay.
- 2** Which statement would Alexis Wood most likely agree with?
 - A Kids should never eat sweets.
 - B Eating a variety of foods is key.
 - C All sodium-rich foods should be banned.
 - D Schools should serve only veggies.
- 3** According to the sidebar, which of these foods is a good source of calcium?
 - A apples
 - B corn
 - C potato chips
 - D yogurt



The Fight for Women's Rights

- 4** Which could be another title for this article?
 - A "All About the U.S. Constitution"
 - B "How Women Won the Vote"
 - C "A Guide to Visiting Seneca Falls"
 - D "What It Takes to Run for Office"
- 5** Based on the article, which characteristic did Elizabeth Cady Stanton demonstrate?
 - A confusion
 - B determination
 - C joyfulness
 - D shyness
- 6** Which conclusion is supported by the article?
 - A More women than men now vote in elections.
 - B Women frequently ran for office in the 1840s.
 - C No men attended the women's rights gathering in Seneca Falls, New York.
 - D Many activists worked for years to secure more rights for women.

PAGES 4-5

Mathews/Library of Congress/Corbis/Photo via Getty Images (Jeannette Rankin); Vladimir Yudin/Getty Images (tennis); Mathis Oetzel/Getty Images (tennis); Collection of the Supreme Court of the United States via Getty Images (Justices); Shutterstock.com (all other images)

Two Minute Timing # 2 (Do this weekly to see your progress)

$2)\overline{4}$ $3)\overline{6}$ $6)\overline{42}$ $5)\overline{10}$ $5)\overline{35}$ $7)\overline{56}$ $2)\overline{6}$ $4)\overline{24}$ $4)\overline{8}$ $2)\overline{10}$

$9)\overline{72}$ $6)\overline{54}$ $6)\overline{18}$ $9)\overline{45}$ $6)\overline{5}$ $8)\overline{4}$ $1)\overline{8}$ $3)\overline{27}$ $9)\overline{18}$ $6)\overline{36}$

$8)\overline{4}$ $5)\overline{15}$ $8)\overline{24}$ $1)\overline{9}$ $4)\overline{12}$ $7)\overline{21}$ $8)\overline{8}$ $6)\overline{1}$ $2)\overline{2}$ $1)\overline{3}$

$8)\overline{16}$ $5)\overline{5}$ $2)\overline{18}$ $2)\overline{14}$ $9)\overline{54}$ $1)\overline{7}$ $4)\overline{16}$ $2)\overline{16}$ $6)\overline{30}$ $2)\overline{8}$

$4)\overline{2}$ $5)\overline{45}$ $5)\overline{25}$ $4)\overline{36}$ $3)\overline{9}$ $9)\overline{27}$ $8)\overline{72}$ $9)\overline{1}$ $9)\overline{36}$ $9)\overline{63}$

$3)\overline{12}$ $7)\overline{49}$ $9)\overline{9}$ $3)\overline{21}$ $8)\overline{64}$ $3)\overline{15}$ $1)\overline{4}$ $3)\overline{24}$ $9)\overline{81}$ $3)\overline{18}$

$8)\overline{48}$ $5)\overline{40}$ $5)\overline{30}$ $7)\overline{14}$ $1)\overline{6}$ $6)\overline{12}$ $8)\overline{32}$ $7)\overline{63}$ $5)\overline{20}$ $7)\overline{28}$

$8)\overline{56}$ $7)\overline{42}$ $4)\overline{28}$ $6)\overline{48}$ $8)\overline{40}$ $7)\overline{35}$ $4)\overline{20}$ $4)\overline{32}$ $6)\overline{24}$ $2)\overline{16}$

Goal _____ Number of problems correct _____

Set W [all previous sets] Practice on facts through Set W

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

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$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

One Minute Timing on facts through Set W

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$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

1 minute timing goal _____

Number of problems correct _____

Multiplication (2x2 Digits)

B

Name: _____

Date: _____

1. Multiply.

$$\begin{array}{r} 33 \\ \times 42 \\ \hline \end{array}$$

- a. 126
- b. 1,385
- c. 198
- d. 1,386

2. Find the product.

$$\begin{array}{r} 76 \\ \times 51 \\ \hline \end{array}$$

- a. 3,876
- b. 456
- c. 356
- d. 3,870

3. Solve.

$$\begin{array}{r} 98 \\ \times 63 \\ \hline \end{array}$$

- a. 564
- b. 6,174
- c. 882
- d. 5,754

4. Multiply.

$$\begin{array}{r} 46 \\ \times 15 \\ \hline \end{array}$$

- a. 70
- b. 276
- c. 690
- d. 660

5. At the Cool Cookie Shop, Kya sells 22 dozen gourmet sugar cookies each day. Each dozen sells for \$12. What is the total amount in sales of gourmet sugar cookies each day?

- a. \$48
- b. \$66
- c. \$264
- d. \$260

6. If the Cool Cookie Shop sells 58 dozen cookies each day for 52 weeks, how many dozen cookies does the shop sell?

- a. 676 dozen cookies
- b. 406 dozen cookies
- c. 3,016 dozen cookies
- d. 266 dozen cookies



Subtracting 5 & 6 digit numbers

Grade 4 Subtraction Worksheet

Find the difference.

$$\begin{array}{r} 1. \quad 167,145 \\ - \quad 39,601 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 20,707 \\ - \quad 19,243 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 890,033 \\ - \quad 87,305 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 279,174 \\ - \quad 96,360 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 264,670 \\ - \quad 43,845 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 463,456 \\ - \quad 37,154 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 16,106 \\ - \quad 13,952 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 491,709 \\ - \quad 228,673 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 413,572 \\ - \quad 50,792 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 802,891 \\ - \quad 568,407 \\ \hline \\ \hline \end{array}$$

THE BUTTERFLY PROTECTORS

How a small town in Mexico is working to save the monarch butterfly

By Barbara Fraser

Every year, on the first two days of November, images of monarch butterflies pop up across Mexico. People wear orange-and-black monarch costumes and paint their faces like butterflies. It's all part of the Mexican holiday Día de los Muertos, or Day of the Dead!

On this day, communities across the country dance and share food as they remember friends and family members who have passed away. Monarch butterflies are one of the symbols of the holiday. The insects are thought to carry the souls of departed loved ones.

As these celebrations take place, real monarchs arrive in Mexico too. Every fall, they come by the millions from the U.S. and Canada. In the forests of central Mexico, the butterflies blanketed tree trunks and branches. They rest in these forests until they leave in the spring.

But in recent years, monarchs have been struggling to find places to rest. As a result of habitat loss and other threats, monarchs are now endangered. That's why residents of San Miguel Ahucatlán, a small town in Mexico, have taken action. Volunteers there are working to protect the monarchs that arrive in their area—and share why the insects are incredible!

AN EPIC JOURNEY

Monarch butterflies are among many animals that migrate, or travel to different habitats at regular times of the year. Monarchs are delicate insects that weigh less than a paper clip. But some make remarkable journeys!

After spending their winter in Mexico, the butterflies head north. Along the way, they

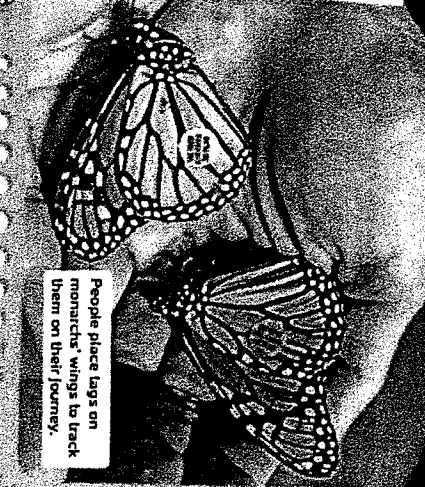
Continued on next page

Look for These STEM Words!

- Delicate**: Fragile or easily broken.
- Habitat**: The natural home or environment of an animal, plant, or other organism.
- Migrate**: To move from one place to another, especially from one country to another.
- Remarkable**: Worthy of attention or notice.
- Sanctuary**: A place of refuge or safety.
- Volunteer**: A person who offers their services without being paid.



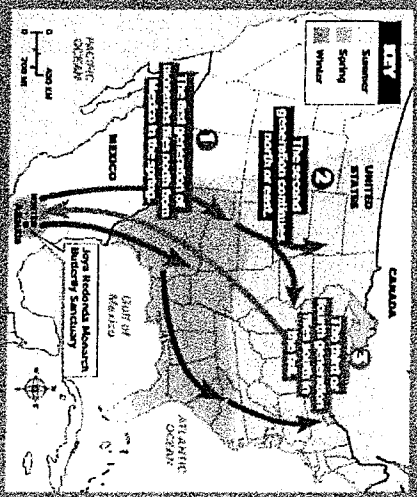
A volunteer at the sanctuary carefully holds a monarch.



People place tags on monarchs' wings to track them on their journey.

Monarch Migration

Some monarchs spend their winter in Mexico and migrate to the United States and Canada in the fall. Other monarchs spend their winter in the United States and Canada and migrate to Mexico in the fall.





lay eggs on milkweed plants. Milkweed is the only thing monarch caterpillars eat. The plant contains chemicals that make the caterpillars and adult butterflies poisonous to predators like birds.

During the spring, several generations of monarchs grow into adults through a process called metamorphosis (see *Vocab Lab, right*). Some of those butterflies continue north, laying eggs along the way. These eggs grow into butterflies that also lay eggs. In late summer and early fall, the third or fourth generation of monarchs migrates south toward Mexico.

The trip isn't easy. One reason is that people have cut down milkweed and other flowering plants. As a result, there is less food for monarchs during their migration. That's why some people living along monarchs' migration routes plant butterfly gardens. The

gardens contain milkweed for monarch caterpillars. They also have flowering plants that provide nectar for adult butterflies. Even a small pot of milkweed or other flowers can make a difference!

A HELPING HAND

Most monarchs spend winter in forests west of Mexico City. In the past, only a few butterflies appeared in San Miguel Altitude, 150 miles east of their normal resting grounds. But about 15 years ago, more butterflies began appearing in Altitude. Residents had an idea for why that might be. "They came here because people in other places were cutting trees illegally," says Gregorio Granadas Barz. He heads the group that manages a protected area called Joya Ruedonda Monarch Butterfly Sanctuary.

To care for the monarchs, the town formed a group called the Altitude Monitoring Brigade. Members patrol the sanctuary, making sure no one disturbs the resting insects. The group also gives tours of the sanctuary. Tour fees help support the work.

The brigade's efforts seem to be paying off! Over the past few years, the sanctuary's monarch population has increased. The insects once occupied 4 trees, and now they cover 42. As the Day of the Dead approaches, the butterflies remind Altitude residents of loved ones who have passed away.

Members of the brigade are proud to protect the monarchs that call the sanctuary home. "I think they like it here," Granadas Barz says.

Do It!

Get your STEM background by watching the video and hands-on activities.

WATCH The video

CONNECT Migration map

WRITE STEM words

Vocab Lab

What you need to know about this STEM word!

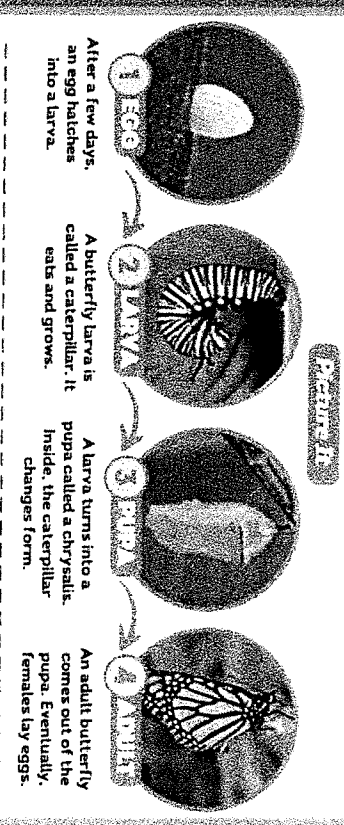
Metamorphosis

say it
meh-tuh-MOR-fuh-suhz

Definition
a series of dramatic body changes some animals go through as they become adults

Bread It Up
Each word part, or root, is from the Greek language.

ROOT	MEANING	change	form	process or action
META	change			
MORPH	form			
SIS	process or action			



Use It!

The frog metamorphosis goes through the stages from a tadpole into an adult.

