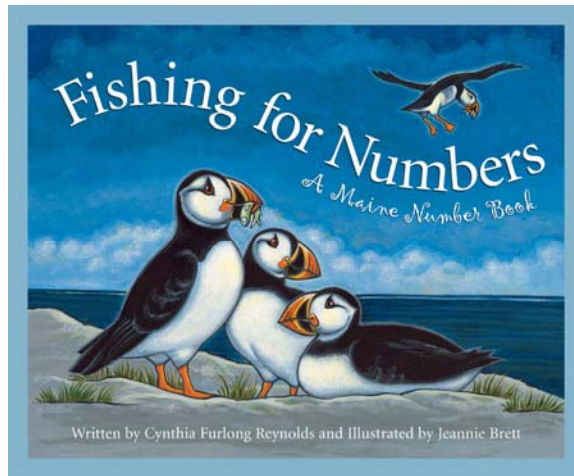


Teacher's Guide



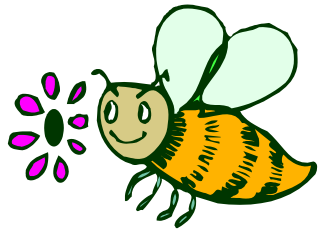
Fishing for Numbers A Maine Number Book

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HONEYBEE RADAR

Just as we use our fingers for touch, our eyes to see, and our noses to smell, the honeybee uses various parts of its body to help it. In the book *Fishing for Numbers* turn to page 100 and learn more about honeybees.

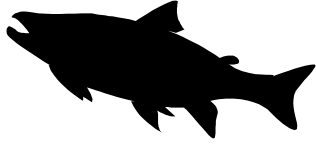
Match each of these bee parts to its function.

wings	eyes	crop	legs
antennae		stinger	

1. _____ to spot flowers
2. _____ to detect fragrances
3. _____ for flight
4. _____ for pollen gathering and walking
5. _____ to carry nectar back to the hive
6. _____ to defend the hive

Label the parts of the bee.





Salmon, Sardine, or Whale?

Salmon, sardines, and whales are all found in the water in and around the state of Maine. Learn about what makes each species special in *Fishing for Numbers*.

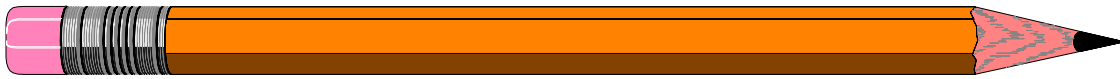
Use the information you learned to write each characteristic in the box beneath the correct aquatic species.

mammal	freshwater	live birth
toothless	smallest	largest
oily flesh	blowhole	forked tail with no spots
good for sport fishing		

Salmon

Sardine

Whale



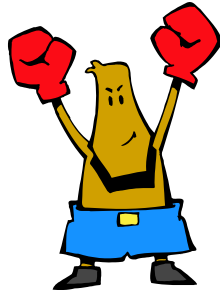
Maine Crossword

Fishing for Numbers is a book about many of the unique aspects of Maine. All of the answers to the crossword can be found by reading this wonderful book.

Solve the crossword.

M _____
A _____
I _____
N _____
E _____

1. Another name for Trailing Arbutus _____
2. What lumberjacks use to fell trees _____
3. A food for bear _____
4. A whale's blowhole serves as a _____ opening.
5. Friendship sloops have _____ sterns.



Practical Potato Math

Potato production is an important part of Maine's economy. Do you like potatoes? Discover why you shouldn't eat green potatoes in *Fishing for Numbers*.

Solve these potato problems.
One pound = 16 ounces.

1. Three pounds of potatoes are equal to how many ounces? _____
2. Timmy grew a huge potato that weighted 88 ounces. How many pounds did it weigh? _____
3. Five friends decided to make some money by digging potatoes for a farmer. Juan dug 15 pounds of potatoes, Edward dug 18 pounds, Nicole dug 6 pounds, Mary dug 12 pounds, and Jack dug 2 pounds. How many total pounds of potatoes did the friends dig? _____
4. The friends were paid 25 cents per pound. How much did the group earn? _____

Maine's Many Forts

Maine has a coastline that needed protection through many wars. Many forts have been built to help protect the coastline over the decades. Discover more about these forts in *Fishing for Numbers*.

Put the following wars in the order they took place, starting with the earliest.

World War I	Revolutionary War
French and Indian War	War of 1812
World War II	Civil War

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Do you think Maine still needs forts to protect it? _____

Explain _____

GOLD RUSH

Many citizens of Maine decided to head west to California to seek their fortunes during the gold rush. Some went overland, some by water. Read about the clipper ships and how they got their name in *Fishing for Numbers*.

You must decide whether to go to California by wagon train or clipper ship to take part in the gold rush.

Make a list of advantages and disadvantages of each type of transportation. You might want to look at a map of the United States to help you.

<u>Wagon Train</u>	<u>Advantages</u>	<u>Clipper Ship</u>
--------------------	-------------------	---------------------

<u>Wagon Train</u>	<u>Disadvantages</u>	<u>Clipper Ship</u>
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Which would you choose? _____

Explain _____



Tasty Pie

Survey and Graph

Blueberries make a tasty pie! Where are most of our blueberries grown? Why in Maine, of course. Read about how blueberries are grown in *Fishing for Numbers*.

There are many different varieties of pie to enjoy. What is your favorite?

Survey 25 people to find their favorite pie.

Blueberry

Apple

Cherry

Other

Use the data you collected to make a bar graph showing the results. Remember to give your graph a title.



Sleek, Slippery, Seals

Alliteration

Maine is the place to find many interesting animals. There are the trees, and the seas, the hills, and the seals. Enjoy discovering these creatures and places in *Fishing for Numbers*.

Alliteration is the use of the same beginning sound of words in a sentence. Example- Sleek slippery seals slip and slide.

Complete each description of these Maine creatures using alliteration.

1. Slippery, shiny salmon

2. Little laughing loons

3. Puckish puffins

4. Seven silly sardines

5. Curious coon cats

6. Weighty, wonderful whales

7. Burly, big, black bears

8. Hundreds of honeybees

9. Cute, cold clams



Potatoes, Potatoes, Potatoes

How do you like your potatoes? Most people enjoy eating this nutritious vegetable. Did you know Maine is one of the top potato-producing states in the United States? Learn more about Maine potatoes in *Fishing for Numbers*.

Put the following varieties of potatoes in alphabetical order.

Russet	Idaho	Goldrush
Red	White	Yukon Gold
All Purpose	Red Pontiac	Yellow Finnish
Peruvian Blue		

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Adventure with a Black Bear

Write an adventure about you and a black bear. Use your imagination.

[illegible]



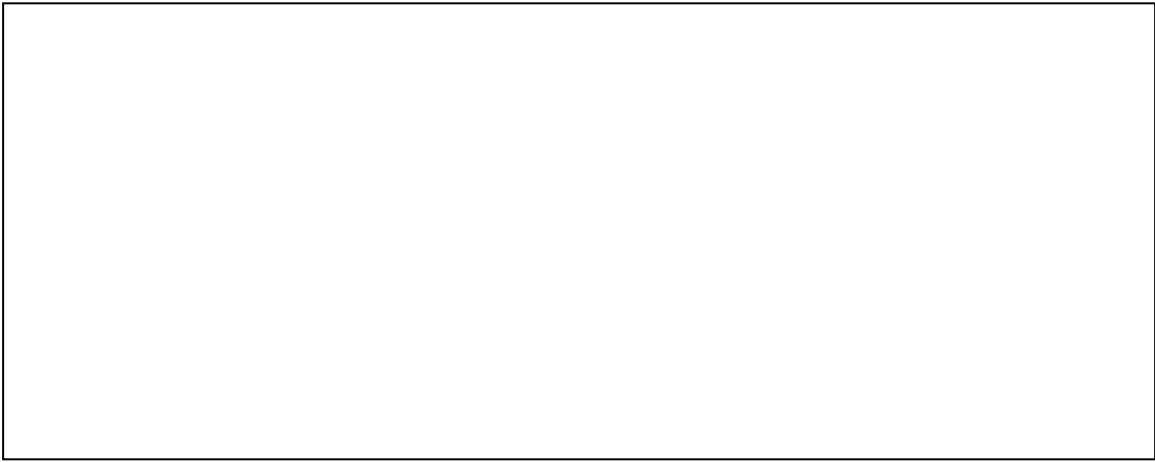
Pretend you are a newspaper reporter and have just scooped everyone with the story of a new shipwreck that was found off the coast of Maine. Use this graphic organizer to help you write your article.

HOW

Mayflower

Flowers in the snow? The Mayflower or Trailing Arbutus can be found in the early spring in Maine. Discover facts about May Day in the book *Fishing for Numbers*.

Write a poem that could be included in a May Day basket.



Cut out your poem and glue it on a bright sheet of colored paper.

Write two riddles for a May Day basket.



Paul Bunyan is a Tall Tale

Paul Bunyan was a lumberjack that you will find stories about in many states including Maine. Read about real lumberjacks and what they did in *Fishing for Numbers*.

Create your own folk hero and write a tall tale about your creation.

Keep these elements of a tall tale character in mind.

1. The character should be larger-than-life with superhuman characteristics.
2. Use exaggerated details that describe things greater than they really are.
3. Solve the character's problem in a funny way.
4. Make your character colorful.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Draw a picture of your tall tale hero.

Answer Sheet

Honeybee Radar- 1) eyes 2) antennae 3) wings 4) legs 5) crop 6) stinger

Salmon, Sardine, or Whale- Salmon- freshwater, forked tail with no spots, good for sport fishing

Sardine- toothless, smallest, oily flesh

Whale- mammal, live birth, largest, blowhole

Maine Crossword- 1) Mayflower 2) axe 3) insects 4) nostril 5) elliptical

Practical Potato Math- 1) 48 oz. 2) 5 ½ lbs. 3) 53 lbs. 4) \$13.25

Maine's Many Forts- 1) French and Indian War 2) Revolutionary War 3) War of 1812 4) Civil War 5) World War I 6) World War II

Potatoes, Potatoes, Potatoes- 1) All Purpose 2) Goldrush 3) Idaho 4) Peruvian Blue 5) Red 6) Red Pontiac 7) Russet 8) White 9) Yellow Finnish 10) Yukon Gold