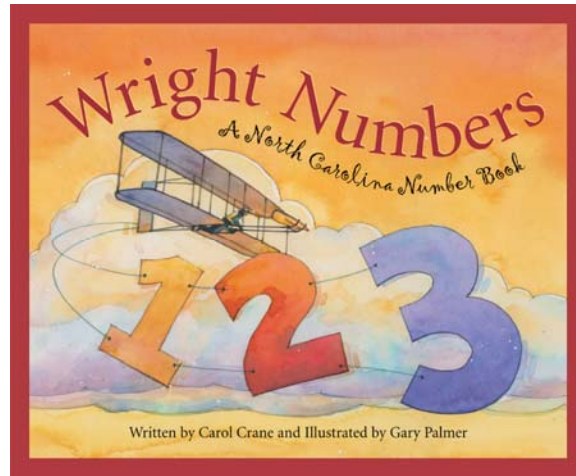


Teacher's Guide



Wright Numbers: A North Carolina Number Book

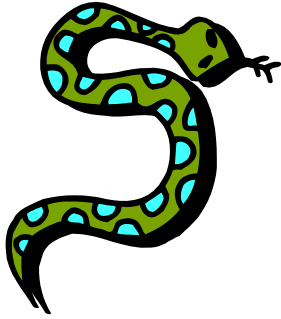
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BEWARE OF SNAKES

Hiking is a popular pastime in the mountains of North Carolina. Discover additional activities you can enjoy in the mountains on page 1 of *Wright Numbers*.

Cottonmouth

Eastern coral snake

Pigmy rattlesnake

Copperhead

Eastern diamondback rattlesnake

Timber rattlesnake

Put these poisonous snakes in alphabetical order.

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

Make a flyer to give to hikers making them aware of the dangerous snakes.



A BASKETBALL IS A SPHERE

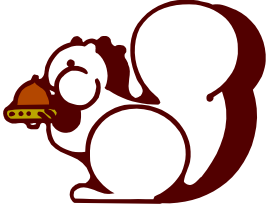
Geometric shapes in sports

Dr. James Naismith was the inventor of the game of basketball.
Find the original rules for this popular sport in *Wright Numbers*.

Geometric shapes are found in most sports.

Draw and name the geometric shape listed below.

1. Basketball
2. Basketball court
3. Baseball diamond
4. Tennis racket head
5. Soccer ball



White Squirrel Math

Do you think the white squirrel might be an albino? Find the answer in the book *Wright Numbers*.

Solve these squirrel problems.

1. Four white squirrels each had 12 nuts stored for winter. How many total nuts were stored? _____

2. Sam the squirrel hid three nuts in each of the ten trees in the park. How many nuts did he hide? _____

3. Susie squirrel found and ate the nuts in three of Sam's trees. How many nuts does Sam have left? _____

4. It was Sandy squirrel's birthday and 15 friends brought her nuts as presents. Each friend brought 4 nuts. How many nuts did she receive? _____

5. Park Ranger Steve cleaned out the squirrel nests in the spring. There were 12 nuts in one tree, tree two had 18 nuts, tree three had 42 nuts and tree four had five nuts. How many nuts did Ranger Steve find? _____



BUILD YOUR SCIENCE VOCABULARY

Enjoy reading the book *Wright Numbers*, which gives you some interesting facts about North Carolina. You'll find many pages deal with science and you may find vocabulary that is new to you.

Write the definition of each term below.

1. brackish _____
2. goober _____
3. albino animal _____
4. cygnet _____
5. skirl _____
6. moored _____
7. galley _____
8. entomologist _____
9. only fruit with seeds on the outside _____
10. "white gold of the earth" _____



SAVE GAS- USE THE RIVER FERRY

What is a river ferry? Only three still exist in North Carolina.
Learn about these unique boats in *Wright Numbers*.

FIND THE PATTERN

The San Souci Ferry saves 20 miles for travelers crossing the river.
George uses the ferry to get to work daily. How many miles will
George save in one week?

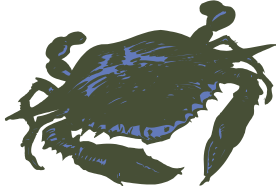
Directions

Fill in the chart

Look for a pattern

<u>Day</u>	<u>Number of miles saved per week</u>
<u>Monday</u>	<u>20</u>
<u>Tuesday</u>	<u>40</u>
<u>Wednesday</u>	<u>60</u>
<u>Thursday</u>	_____
<u>Friday</u>	_____

Name the pattern _____



Math with the Blue Crabs

Can you imagine having 10 legs? Well, the blue crab has that many. Pairs of legs have different uses. Read about this amazing creature in *Wright Numbers*.

Solve these number problems.

1. Big blue crab lost one pair of legs. How many legs does he have left? _____
2. Three blue crabs were walking on the beach. What was the total number of crab legs walking? _____
3. Baby blue crab lost 2 of its legs. How many pair of legs did it have left? _____
4. There were 10 blue crabs going for a walk. Each crab had all of its legs. How many legs were going for a walk? _____
5. Robby blue crab got caught in a fisherman's net and lost all of the legs on one side of his body. How many legs did he lose? _____



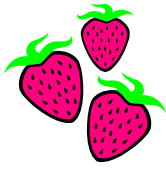
GROWING CHRISTMAS TREES

Did you ever wonder why Christmas trees always look so perfect? It's a combination of nature and man working together. Learn about one very popular species of Christmas tree on page 50 of *Wright Numbers*.

Circle the true statements.

1. The Fraser Fir has been chosen as the official White House Christmas tree 12 times.
2. Oregon grows more Christmas trees than North Carolina.
3. It takes three years to grow a Christmas tree to the height of seven feet.
4. Seeds are planted and covered with straw.
5. Seedlings get transplanted when they are strong.
6. Growers don't have to shape Fraser Fir.

Draw and decorate a Fraser Fir.



STRAWBERRIES OR BLUEBERRIES

Survey and Graph

Have you ever picked strawberries or blueberries? It's fun to eat them as you pick them. Find which state named these as their favorite red and blue berries in *Wright Numbers*.

Survey 30 students to find the type of berry they prefer.

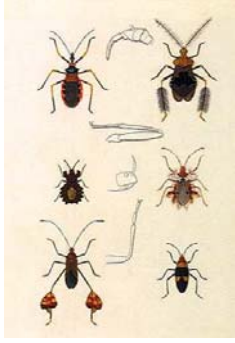
Strawberry

Blueberry

Other berry

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

A large, empty rectangular box with a black border, intended for drawing a bar graph based on the survey data.



Make an Insect Specimen Box

You can find exotic insects in the Museum of Life and Science in Durham, North Carolina. Discover some of the insects they have on display in *Wright Numbers*.

You can also find many types of insects right in your own backyard. Make an insect specimen box containing the insects you find locally.

Directions

1. Collect insects. Use a bug catcher or an insect net or just look for dead insects.
2. Find the common and scientific names for each insect. Make display labels giving both names. You may need to check an insect guide or the internet for this information.
3. Carefully mount each insect in your box. Add the common and scientific names below each insect.
4. Cover your display box with clear plastic to protect your insects.
5. Write a paragraph about your most unusual insect.
6. Display your box in your classroom.
7. Invite other classes in to see your specimens and explain how you made your project.



Experiment with Peanuts

Do the amounts of light, water, or sound used in growing a peanut plant affect the growth of the plant?

On page 9 of *Wright Numbers* you will find directions for growing peanuts. Follow the directions for planting.

See if varying the conditions of growth will make any difference in the development of the plants or fruit.

Directions

1. Plant each pot exactly the same. Same soil, seeds at the same depth, same size pot.
2. Place one pot in the direct sunlight. Follow the original directions for growing peanuts with this pot.
3. Place one pot in partial sunlight throughout its growing time.
4. Place one pot in the shade throughout its growing time.
5. Place one pot near the radio for at least one hour a day. The radio should be playing loud music.

Measure each of your plants once a week. Keep a chart of your results.

Try another set of plants using the amount of water as a variable.

Try using different types of music at different volumes.

Present your results after 45 days.

Discuss the results as a class.



Moravian Cookie Recipe

Makes 3 dozen small cookies

Ingredients

$\frac{3}{4}$ cup of all-purpose flour
 $\frac{1}{2}$ teaspoon baking powder
 $\frac{1}{2}$ teaspoon ground cinnamon
 $\frac{1}{2}$ teaspoon ground ginger
 $\frac{1}{2}$ teaspoon ground white pepper
 $\frac{1}{4}$ teaspoon cloves
 $\frac{1}{4}$ teaspoon baking soda
 $\frac{1}{4}$ teaspoon salt
 $\frac{1}{3}$ cup light brown sugar
3 tablespoons butter, softened
 $\frac{1}{4}$ cup mild molasses

Preheat oven to 350 degrees. Grease cookie sheet.

1. In large bowl, combine first eight ingredients.
2. In a different large bowl beat brown sugar with butter until blended. Use low speed on mixer until blended and then increase speed to high and beat until creamy. Beat in molasses until blended.
3. Stir in flour mixture.
4. Drop dough by rounded teaspoons onto cookie sheet. Press each cookie into a circle, about 2 inches round.
5. Bake 8 to 10 minutes. Let cookies stay on cookie sheet to cool slightly. Use a pancake turner to remove cookies onto a wire rack to cool completely. Store cookies in a tightly covered container.



DESIGN A WHIRLIGIG

What is a whirligig? Find out on page 30 of *Wright Numbers*. Try designing one of these types of wind machine. Make sure your design will be able to be moved by the wind.

Give your whirligig a name _____

Explain the science behind why it turns _____

Wright Numbers

Answer Sheet

Beware of Snakes- 1) copperhead 2) cottonmouth 3) eastern coral snake 4) eastern diamondback rattlesnake 5) pigmy rattlesnake 6) timber rattlesnake

A Basketball Is a Sphere- 1) sphere 2) rectangle 3) square 4) oval 5) sphere

White Squirrel Math- 1) 48 2) 30 3) 21 4) 60 5) 77

Build Your Science Vocabulary- 1) part salty, part fresh water 2) peanut 3) white with pink or red eyes 4) young swan 5) high shrill tone 6) anchored 7) kitchen 8) scientist who studies insects 9) strawberry 10) cotton

Save Gas-Use the River Ferries- Thursday 80, Friday 100.
Pattern- increase of 20 miles per day.

Math with the Blue Crabs- 1) 8 2) 30 3) 4 4) 100 5) 5

Growing Christmas Trees- True- 2, 4, 5