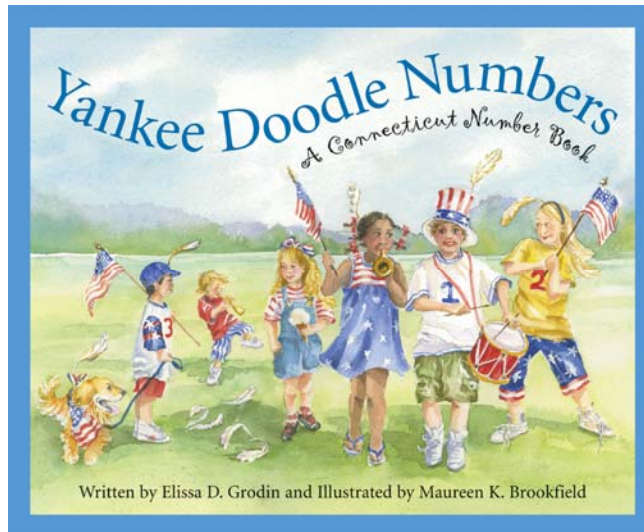


Teacher's Guide



Yankee Doodle Numbers: A Connecticut Number Book

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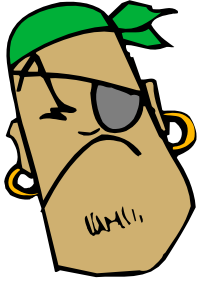
YANKEE DOODLE FOLKS

Yankee Doodle Numbers is a great place to find some famous folks from Connecticut.

Match each person below with his accomplishment listed in the box.

constructed first successful helicopter	won Nobel Prize
astronomer	founded Connecticut Audubon Society
female lighthouse keeper	author of <i>Yankee Doodle Numbers</i>
first Commissioner of Education in the United States	
started artists' colony	author of <i>Uncle Tom's Cabin</i>
first woman to receive a U.S. patent	

1. Henry Barnard _____
2. Harriet Beecher Stowe _____
3. Igor Sikorsky _____
4. Mabel Osgood Wright _____
5. Edward Herrick _____
6. Mary Kies _____
7. Amy Buddington _____
8. Elissa D. Grodin _____
9. Henry Ward Ranger _____
10. Barbara Mc Clintock _____



A Privateer or a Pirate

You know what a pirate is, but how about a privateer? Discover the role privateers played in the American Revolution in *Yankee Doodle Numbers*.

In each box below write one way that privateers were different from pirates.



Love Those Lollipops Math

What would you name a piece of candy on a stick? Why, a lollipop, of course! Where did the name and the candy come from? The answer is easy to find in *Yankee Doodle Numbers*.

Solve:

1. If you bought 8 lollipops and paid 7 cents each for them, how much did you pay? _____

2. If you bought 3 deluxe lollipops and paid 10 cents each, how much did you pay? _____

3. If 7 Pez dispensers each cost 25 cents, what is the total cost?

4. If 2 candy bars cost 55 cents each, how much did you pay?

5. If 5 lollipops cost 8 cents each and you bought 10, how much did you pay? _____



Who Uses Mathematics?

As you read *Yankee Doodle Numbers*, you will find information using numbers and mathematics. Did you ever wonder about how many people use mathematics everyday in their jobs?

Brainstorm a list of careers where mathematics is an important part of the job.

Make a list of careers that don't use mathematics.



Money Math

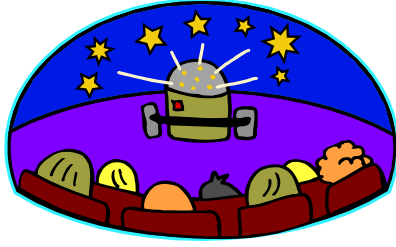
Can you imagine sharing your classroom with your teenage brother or sister? That was the case in the 1800s in Connecticut. Read about these one-room schools in *Yankee Doodle Numbers*, and then practice your math skills

Write as dollars and cents:

1. 7 quarters _____
2. 56 nickels _____
3. 6 dimes _____
4. 10 quarters and 10 dimes _____
5. 118 pennies _____
6. 80 dimes and 2 quarters _____

Complete:

7. 6 quarters = _____ dimes
8. 3 dollars and 15 nickels = _____ quarters
9. 5 quarters = _____ pennies
10. 7 dollars and 3 dimes = _____ pennies



What Will Change?

A planetarium can project what the nighttime sky will look like in the future. Have you ever been to a planetarium? *Yankee Doodle Numbers* has more information about planetariums.

Put your imagination to work and describe how the world will be different 100 years from now.

Brainstorm all the things that you think will be different and describe how they will be different.



CONNECTICUT'S GEOGRAPHY

Were you aware that once the continents were one large piece of land? Learn the name of this landmass in *Yankee Doodle Numbers*. See how this made it easier for early settlers to succeed in America.

Draw a picture of each geographic term below.

1. mountains

2. river

3. lake

4. forest

5. stream

6. island



BIRDS ALL AROUND

Survey and Graph

Everywhere you look you will find some species of bird. Learn about the woman who started the Connecticut Audubon Society in *Yankee Doodle Numbers*.

Survey 30 people to find which of the birds listed below is their favorite.

coot

loon

hawk

owl

Use this data to make a bar graph showing the results. Use a different color to represent each bird in the survey. Don't forget to label your graph.



WELCOME TO HAT CITY

Danbury, Connecticut, became known as “Hat City” because it had so many hatmakers in the 1700s. *Yankee Doodle Numbers* tells how that happened and explains a little about the Industrial Revolution.

Design a hat for yourself. Perhaps you’d like to design a hat that would help you in school! Have fun and be creative!



How Fast Will It Melt?

Connecticut is the home of many scientists. Discover many of these famous people in *Yankee Doodle Numbers*.

Try this science experiment.

Question: Which will melt first— an ice cube on black paper or an ice cube on white paper?

Make a prediction _____.

Predict the amount of time it will take for each to melt.

white paper _____ black paper _____

Choose a sunny day in the winter. Make sure the temperature is above 32 degrees.

Directions

1. Place 2 ice cubes about 3 inches apart on a sheet of white paper.
2. Place 2 ice cubes about 3 inches apart on a sheet of black paper.
3. Place both sheets of paper next to each other in full sun.
4. Check every 10 minutes. Make note of what you observe each time.
5. What were your results?
6. Explain why you think this happened. _____



SOLVE A PROBLEM: BE AN INVENTOR!

Connecticut claims to be the home of many famous inventors including Eli Whitney and Charles Goodyear. Discover additional inventors from Connecticut in *Yankee Doodle Numbers*.

Look around your home, school, city, or state and find a problem that needs to be solved. Design an invention to help solve the problem. Be creative!

Problem-solving steps:

1. Find a problem that needs to be solved.
2. Brainstorm a list of all possible solutions, even if they seem silly.
3. Choose the best solution.
4. Invent something to help reach the solution.

Pretzel



What role did Connecticut play in the founding of America? Read about this state in *Yankee Doodle Numbers*.

Yankee Doodle Numbers
Answer Sheet

Yankee Doodle Folks- 1) first Commissioner of Education in the United States 2) author of Uncle Tom's Cabin 3) constructed first successful helicopter 4) founded Connecticut Audubon Society 5) astronomer 6) first woman to receive a U.S. patent 7) female lighthouse keeper 8) author of Yankee Doodle Numbers 9) started artists' colony 10) won Nobel Prize

A Privateer or a Pirate- possible answers; privately owned, licensed to attack, British supplies given to American soldiers, privateer could keep half of the profits

Lollypop Math- 1) .56 2) .30 3) \$ 1.75 4) \$ 1.10 5) .80

Money Math- 1) \$ 1.75 2) \$ 2.80 3) .60 4) \$ 3.50
5) \$ 1.18 6) \$ 1.30 7) 15 8) 15 9) 125 10) 730