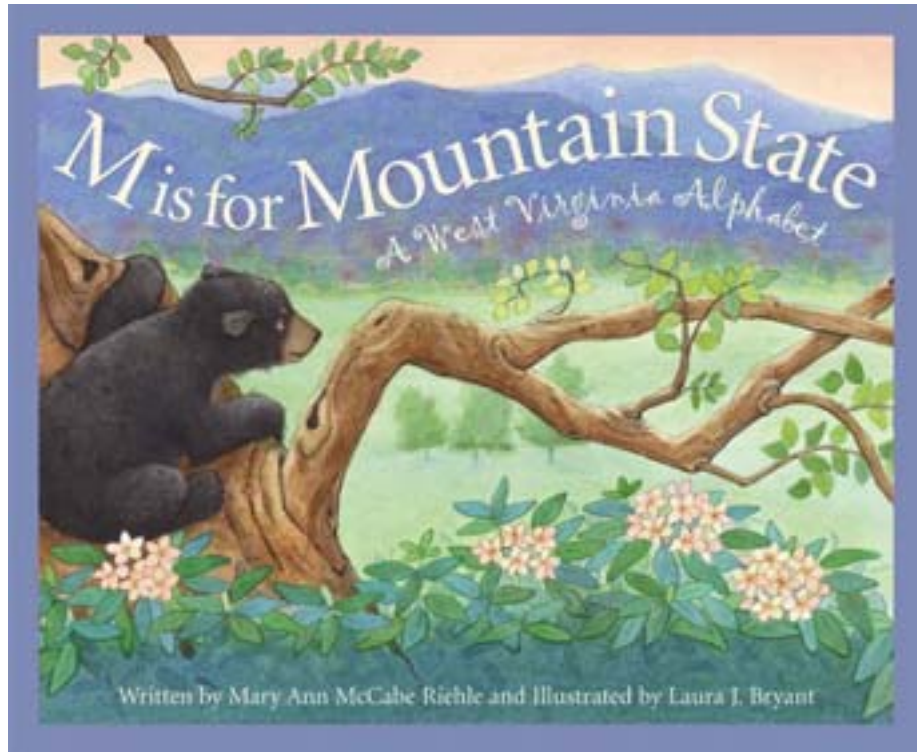


A Teacher's Guide



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Mapping West Virginia

M is for Mountain State is the place to learn about the unique geography of West Virginia.

Place the following on the map of West Virginia

1. Allegheny Mountains
2. States that border West Virginia
3. Charleston
4. Your hometown or a place you would like to visit in West Virginia



West Virginia Loves ...

M is for Mountain State is a wonderful book about West Virginia. Read it and learn about this great state. Throughout the book you will find the names of state symbols. Have fun finding them.

1. tree _____

2. fruit _____

3. animal _____

4. bird _____

5. insect _____

6. butterfly _____

7. flower _____

8. motto _____

9. fish _____

Name one symbol you would add to this list.

Match the Mighty!

West Virginia has been home to many famous Americans throughout history. Match the person below with his or her description. *M is for Mountain State* will help you with this task.

- | | |
|-----------------------------|---|
| ___ 1. Mary Lou Retton | A. started Mother's Day |
| ___ 2. Booker T. Washington | B. abolitionist convicted of treason and hung |
| ___ 3. John Brown | C. mound building people |
| ___ 4. Pearl S. Buck | D. flew 2 ½ times the speed of sound |
| ___ 5. Dr. Carter Woodson | E. first woman to receive Pulitzer and Nobel prizes |
| ___ 6. Anna Jarvis | F. Father of Black History |
| ___ 7. Chuck Yeager | G. winner of five Olympic medals |
| ___ 8. Adena | H. founder of the Tuskegee Institute |
| ___ 9. Cass Gilbert | I. designed the state capitol building |



Marble Math

West Virginia produces almost all of the glass marbles that are made in the United States. Learn more about glass from West Virginia in *M is for Mountain State*.

Use your “marbles” to solve these problems!

1. Mary has 15 green marbles to trade. She trades 3 green for 2 blue and 9 green for 12 yellow. How many marbles did Mary end up with? _____
2. Gary, Sue, and Tim bought a bag of 500 marbles. They split them evenly. How many marbles did each child get? _____
3. Lindsey had 79 marbles. Through a hole in her marble bag she lost 26 marbles. How many does she have left? _____
4. The marble factory makes 20 marbles per minute. How long does it take to make 1,000 marbles? _____
5. Juan has 16 green marbles, 19 blue, 28 yellow, 5 red, and 73 clear. What is his total number of marbles? _____
6. Write your own marble problem. Have a friend solve it.



Is it a StalacTite or a StalagMite ?

Discover the world of stalactites and stalagmites in the book *M is for Mountain State*. Name the famous caverns found near Lewisburg, West Virginia. _____

On a separate piece of paper, draw a picture of the inside of a cavern. Draw and label the stalactites and stalagmites.

Would you rather be a stalactite or a stalagmite? Write a paragraph explaining your choice.

Scrambled Apples

Did you know a new variety of apple was discovered in 1995, right in Clay County, West Virginia? You'll find the name of this new discovery in *M is for Mountain State*.

Farmer Brown needs help! He needs to send his apples to market in alphabetical order but the wind blew the names off the baskets. Help him out by putting these apples in alphabetical order.

Gala
Golden Delicious
Northern Spy

Fugi
Red Delicious
Granny Smith

Jonathon
Macintosh

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

My favorite apple is the _____.

Get Ready For The Hunt

Knowledge Hunt

Throughout the pages of *M is for Mountain State* you will gain the knowledge necessary to answer the following questions. Have FUN as you search for the answers.

1. Why was the first match in 1881 at Oakhurst Links postponed?

2. Name the special gathering that is held each May in Charleston.

3. What is the name of the highest point in West Virginia?

4. Name West Virginia's first capital.

5. Why are the artifacts found in mounds important?

6. What caused West Virginia to become a state?

7. Name two materials mined in West Virginia.



Kanawha Crossword

Kanawha is a Native American word that is found throughout West Virginia. Find the meaning of Kanawha in *M is for Mountain State*.

Search for the answers to this crossword.

1. ___ **K** ___ ___ ___ Birth place of Anna Jarvis
2. ___ ___ **A** ___ ___ ___ Popular winter sport
3. ___ ___ **N** ___ ___ Famous sandstone rocks
4. ___ **A** ___ ___ ___ ___ Home to stalactites and stalagmites
5. **W** ___ ___ ___ ___ ___ ___ ___ wrote *Up from Slavery*
6. ___ ___ ___ **H** ___ ___ ___ West Virginia has two of these
7. ___ ___ ___ **A** ___ Type of maple tree (yummy)



Give a **CHEER** for West Virginia!

The pride of West Virginia is apparent in its universities. Find the name of West Virginia's oldest college in *M is for Mountain State*. In what year was the oldest university in West Virginia established?

Everyone likes to cheer for his or her favorite teams. How about writing a cheer for the state of West Virginia?

Example: West Virginia, that's our state
The Allegheny Mountains are really great
Rah - Rah- Rah

Try writing your own cheer about the beauty of West Virginia.



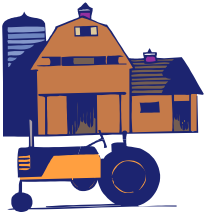
First Ladies

The wife of a United States president is called the "First Lady." Throughout history first ladies have helped to make our country a better place. First Lady Eleanor Roosevelt played a large role in helping the people of West Virginia.

Find out about her accomplishments in *M is for Mountain State*.

Pretend you were asked to help the First Lady to decide how she could help the people of West Virginia this year. Brainstorm a list of ideas that you feel would help the people of West Virginia.

Choose your best idea and write a paragraph explaining why your idea is needed.

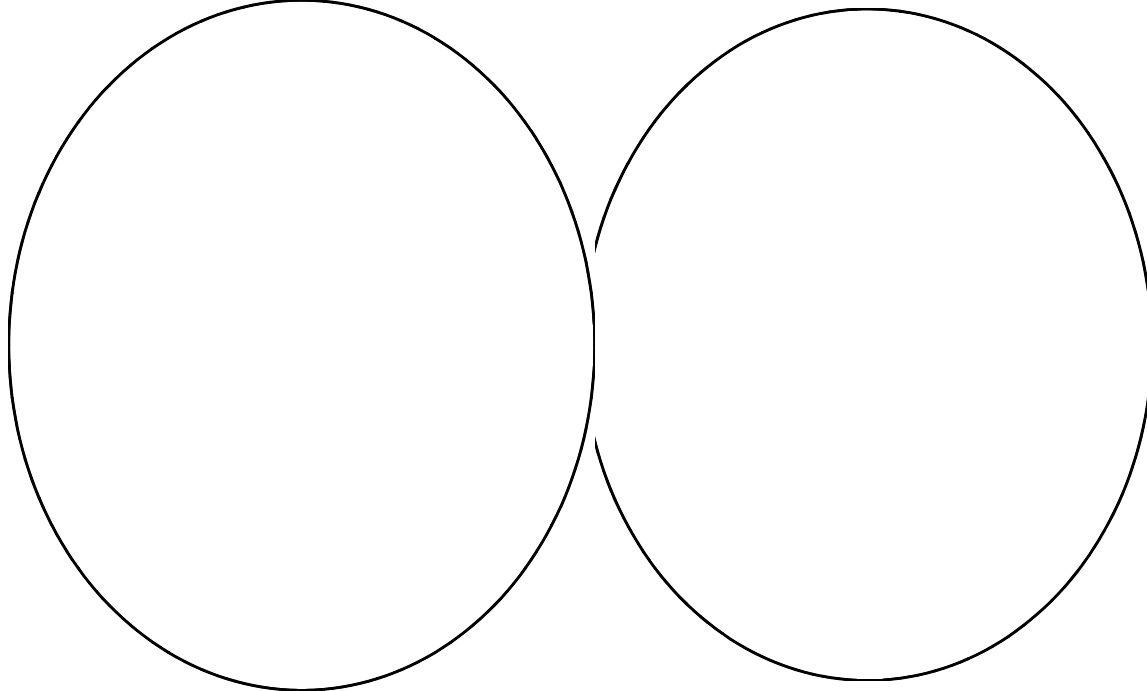


Farming and Mining

The state flag of West Virginia shows a picture of a farmer and a miner standing beside a rock. It shows the importance of each of these occupations in West Virginia. *M is for Mountain State* is full of information about many occupations held by people in West Virginia. Make a Venn diagram comparing the work a farmer does and the work a miner does. How are they alike? How are they different?

Alike

Different





In Honor of Mom

Anna Jarvis's mother knew how much women who were mothers had in common. She organized a "Mothers' Friendship Day" to bring Civil War families from the North and the South together.

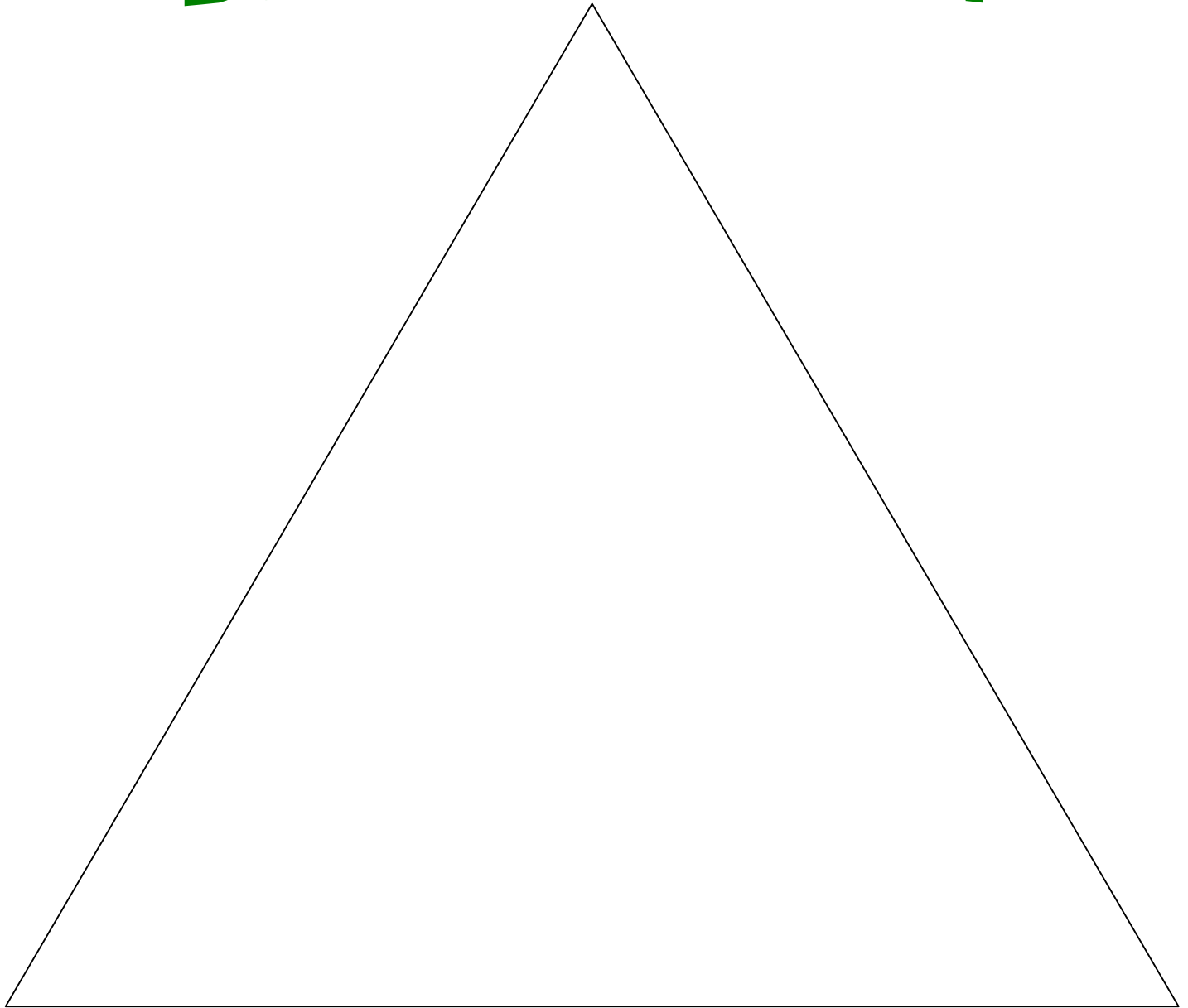
Find the name of the president who proclaimed the second Sunday in May as Mother's Day in the book *M is for Mountain State*. _____

Anna sent 1,000 carnations to a church to honor her mother.

Make a list of what you could do to honor your mother. Think creatively.

Write a paragraph describing what makes your mom special.

Build a Mountain



Make a book shaped like a mountain using the facts you learned in *M is for Mountain State*. Use construction paper for the cover. Use plain paper inside. Use this sample pattern when you cut your mountains. Write one fact about the mountains in West Virginia on each page.

Example: The Allegheny Mountains are the tallest mountains in West Virginia.

MAKING A QUILT

Quilting is both fun and practical. Do you like to curl up under a warm quilt on a cold day? *M is for Mountain State* has a very interesting page on how quilting is important in West Virginia. You can learn about many places, people, and things throughout this wonderful book.

Class Project—West Virginia Paper Quilt

1. Discuss the important symbols and fun places in West Virginia.
2. Have each student choose a scene or symbol to put on their square.
3. Cut 5-inch by 5-inch squares of white or manila paper. Give each child a practice square.
4. Have each student do a final square. Use bold colors. Encourage large symbols rather than busy scenes.
5. Make a special center patch with West Virginia on it.
6. Markers work well on the squares.
7. Assemble blocks using a black or dark blue 1-inch strip between blocks and as a border.
8. Put assembled quilt on a bulletin board. As an option, use bulletin board paper as a backing when you assemble the quilt. You can then put the quilt easily in the hall or on a plain wall.
9. Have each student sign their name in the corner of the square they complete.

These Mountains Rock !

The rocks that make West Virginia's mountains were formed in three different ways. You will find sedimentary, igneous, and metamorphic rocks in the mountains of West Virginia. Read more about how these rocks were formed in *M is for Mountain State*.

Here is your chance to make your own sedimentary rock.

Materials

sand

gravel

2 paper cups

sugar

water

Procedure

1. Mix equal amounts of sand and gravel in one paper cup.
2. Dissolve 6 tablespoons of sugar in 3 inches of water.
3. Slowly pour the sugar water into the gravel and sand mixture. Make sure the sand is well moistened. Pour off any excess water.
4. Place your cup in a warm place and let it dry overnight.
5. Gently tear the paper cup off.
6. Place your rock on a piece of paper and let dry for 3 days.
7. Write the observations you make of your rock.

Write three sentences telling what you learned about sedimentary rocks.

Fun in West Virginia

West Virginia is a beautiful state with many choices for outdoor fun. Learn more about what there is to do outdoors in *M is for Mountain State*.

Survey your classmates to find their favorite outdoor activities from the list below.

Snow skiing

Hiking

River rafting

Use this data to make a bar graph. Label your graph and make it colorful.

M is for Mountain State
Answer Sheet

West Virginia Loves 1) sugar maple 2) Golden Delicious Apple 3) black bear 4) cardinal
5) honeybee 6) monarch 7) rhododendron 8) “mountaineers are always free” 9) brook trout

Match the Mighty 1) G 2) H 3) B 4) E 5) F 6) A 7) D 8) C 9) I

Marble Math 1) 17 2) 166 r 2 3) 53 4) 50 minutes 5) 125

Is it a Stalactite or a Stalagmite Lost World Caverns

Scrambled Apples 1) Fuji 3) Gala 3) Golden Delicious 4) Granny Smith 5) Jonathon
6) Mackintosh 7) Northern Spy 8) Red Delicious

Knowledge Hunt 1) custom inspectors thought golf clubs looked like dangerous weapons
2) Vandalia Gathering 3) West Virginia Spruce Knob 4) Wheeling 5) They help us to learn
about the customs of Native Americans 6) the Civil War 7) salt, coal

Kanawha Crossword 1) skiing 2) Grafton 3) Seneca 4) caverns 5) Washington
6) panhandle 7) sugar

Correlations to West Virginia Content Standards and Objectives

Social Studies

S.S. 4.39

Survey

Mining and Farming

Fun in West Virginia

S.S. W.V. 2.1

West Virginia Loves

A Cheer for West Virginia

S.S. W.V. 4.1

Mapping West Virginia

S.S. W.V. 5.4

Match The Mighty

Knowledge Hunt

Kanawha Crossword

Science

Properties of Earth Materials

S.C. 4.4.3.2

Is It a Stalactite or a Stalagmite?

These Mountains Rock

Mathematics

Standards and Operations

M.A. 4.1.17

Marble Math

Language Arts

Writing

R.L.A. 4.2.2-4.2.5

In Honor of Mom

Montani Semper Liberi

What Did I Just Hear?

Olympic Opinion

Take a Stand on John Brown

A Mountain Book

First Ladies

Descriptive Writing from the Zenith