

Teacher's Guide

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&

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A is for Appalachian Mountains

- Compare and contrast the Appalachian Mountains with the Rocky Mountains using a Venn Diagram.
- Located the Appalachian Mountains on a map or globe. Create an elevation relief map showing the Appalachian Mountains.
- Discuss how the Appalachian Mountains form a divide between the rivers that flow into the Atlantic Ocean and the Gulf of Mexico. Locate and label the rivers that are affected by the divide. Locate the Ocoee River, the site of the 1996 Olympic white water canoe and kayak competition.
- Define erosion and discuss the effect of erosion on the Appalachian Mountains.

Mountain Summits

The Appalachian Mountains form the eastern section of Tennessee. The Great Smokey Mountains are one of the many ranges in the Appalachian system. Clingmans Dome, at 6,643 feet, is the highest point in the Great Smokey Mountains and in Tennessee.

Cooperative Learning Activity

Make five sets of index cards, with the name of a Tennessee Summit and height in feet listed on each card. Each set contains six Tennessee Summits, including Clingmans Dome.

Divide students into groups of five. Direct students to arrange the cards in order from least to greatest. Check each group, then have students trade sets of cards. Continue trading until each group has completed each set of cards. Together as a class, arrange all cards from least to greatest.

SET ONE

Clingmans Dome - 6,643
West Point - 6,344
Cosby Knob - 5,140
Myrtle Point - 6,490
Horseshoe Mountain - 5,288
Beartown Mountain - 5,495

SET TWO

Clingmans Dome - 6,643
Ross Knob - 5,060
Pecks Corner - 5,420
Camel Hump Knob - 5,220
Chapman Mount - 6,417
Jenkins Knob - 5,580

SET THREE

Clingmans Dome - 6,643
High Top - 6,593
Big Stamp - 5,516
Cliff Top - 6,555
Little Bald - 5,220
Haw Knob - 5,472

SET FOUR

Clingmans Dome - 6,643
Roan Mountain - 6,285
Porters Mountain - 5,135
Little Haw Knob - 5,160
Sugarland Mountain - 5,700
Silers Bald - 5,607

SET FIVE

Clingman Dome - 6,643
Cloudland Mountain - 6,200
Snake Den Mountain - 5,200
Yellow Mountain - 5,420
Collins Mount - 6,188
Big Junction - 5,350

Tennessee's State Tree - Tulip Tree

- Adopt or plant a tulip tree in the schoolyard. Observe it through the seasons, take notes and draw sketches. Do rubbings of the tree's bark and leaves.
- Have students bring in leaves from different trees. Group the leaves by different characteristics, such as veins, color, and shape.
- Measure the circumference of various trees and graph the results.
- Brainstorm a list of all the things we get from trees and the things trees do for us. Write a story about a special tree.
- Read "The Giving Tree" by Shel Silverstein or the poem, "Trees" by Joyce Kilmer.

Cooperative Learning Activity - Tulip Tree Bark Rubbings

Make six copies of the following strips. Cut apart each strip, shuffle and place strips in six separate envelopes. Divide students into groups and instruct them to arrange the bark rubbing directions in the correct sequence.

After students have arranged strips in the correct sequence, discuss "order" words, such as **first**, **next**, **then**, and **finally**. Rewrite the directions in paragraph format, adding "order" words.

Place a piece of paper against the bark of a tulip tree.

Fasten the paper to the tulip tree with thumbtacks.

Rub over the paper with a crayon until the pattern of the bark shows on the paper.

Remove the tacks and paper from the tulip tree.

B can stand for Beale Street

- Create Beale Street in the classroom. Set up tables with tablecloths, serve traditional Southern food and play blues music in the background.
- Invite a musician who plays the cornet to visit your class.
- Listen and compare the different types of music from Tennessee. (B.B. King, Elvis, Jubilee Singers, etc).
- Encourage students who play instruments to perform for the class.

C can be for Cloggers

- Invite a clogging dance group to demonstrate clogging. Have students learn clogging steps, like the "rocking chair" or "chug" or invent clogging steps of their own!
- Clogging is a blend of the Scottish and Irish clog, Native American traditional dance and African American buck dance. Locate Africa, Scotland and Ireland on a map or globe.
- Watch a video featuring Irish Dancing or other dance forms. Compare and contrast clogging with other dance forms.
- Encourage students who take dance lessons to perform for the class.

Class Project - Make a Tambourine

Tennessee is well known for music - from Elvis, to the Blues, to Yodeling! Making music is something everyone can enjoy. Make a tambourine and join in the beat!

Materials

Pie tin
Metal bottle caps
Paper fasteners
Hammer and nail
Block of wood to serve as a work base

Directions

1. Place the edge of the pie tin on the block of wood and using the hammer and nail, make holes about two inches apart around the pie tin edge.
2. Place the metal bottle caps flat side down on the block of wood and using the hammer and nail, make a hole in each bottle cap.
3. Push a paper fastener through each bottle cap and connect the bottle caps to the pie tin. Bend the prongs back on the paper fastener to secure the bottle cap to the pie tin.

Daffodils and Dogwood Trees Begin with the Letter D

- Plant daffodil bulbs on the school grounds or in pots in the classroom. Measure and graph the daffodils' growth.
- Invite a "green thumb" from a nursery to inform students about plants that come from bulbs verses seeds.
- Observe a Dogwood tree or bring dogwood flowers into class. Sketch and paint pictures of dogwood flowers.

Class Activity - Daffodil Water Canals

The leaves of plants get water from the ground through a drawing up effect. This effect is called a capillary action. Observe this capillary action with this simple activity.

Materials

Daffodil blooms and stems
Vase with water
Red food coloring

Directions

1. Add red food coloring to a vase of water.
2. Place several daffodil blooms and stems in the vase.
3. Observe the daffodils for several days. Notice that the daffodils will draw water up the stem and become red. This is called a capillary action.

Elvis Presley begins with E.

- Watch an Elvis Presley performance video or listen to recordings of his hit songs.
- Perform choral readings using Elvis song lyrics.
- Research other famous Tennessee entertainers.
- Book Suggestions
Elvis Lives! And Other Anagrams by Jon Agee
Shake Rag by Amy Littlesugar
- Locate Memphis on a Tennessee map. Draw a symbol representing Graceland on the map.

Cooperative Learning Activity - Billboard Single Titles

Elvis, the King of Rock-n-Roll, began his singing career in Memphis, Tennessee in 1954. He earned gold, platinum or multi-platinum awards for 131 different albums and singles. Spark your students' imagination and creativity in this writing activity using the titles of Elvis' hits.

1. List the following Elvis' billboard single titles on the board:

<i>Blue Suede Shoes</i>	<i>Hound Dog</i>	<i>All Shook Up</i>
<i>My Wish Came True</i>	<i>Stuck on You</i>	<i>I Gotta Know</i>
<i>Return to Sender</i>	<i>Good Luck Charm</i>	<i>Follow That Dream</i>

2. Instruct students to write one of the titles on a sheet of paper. After students have chosen a title, looking at their paper, place students with matching titles in a group. Don't reveal the name of the title though!
3. As a group, students write a short paragraph related to the title.
4. When finished, each group reads their paragraph and the class tries to determine what title they had chosen.

Examples

A gust of wind blew across the teacher's desk as the principal opened the door. Papers scattered across the room. Quickly, the students gathered the papers. As Mrs. Smith returned to her desk, the students began to laugh. A sticky note was attached to her back.

What's the title? *Stuck on You*

Carl was getting ready for the Halloween party. He was excited about the costume contest. Last year he came as a clown and so did three other kids. The year before Carl and his teacher both came dressed as skeletons. This year Carl was certain he would be the only one dressed like Elvis. He found the perfect white suit and guitar at a yard sale and his Mom found the perfect pair of shoes. The shoes were the final touch he needed.

What's the title? *Blue Suede Shoes*

F is for Flag

- Have students draw the Tennessee flag and tell what each symbol represents.
- Let students create their own design for a flag focusing on a different state fact related to Tennessee.
- Create a classroom flag.
- Research how many flags have flown over Tennessee.
- Ask a Boy Scout to demonstrate the folding of a flag.

Cooperative Learning Activity - State Flags

Each state has a state flag. Look at the picture of Tennessee's state flag on page F of *V is for Volunteer*.

The states bordering Tennessee are Missouri, Arkansas, Mississippi, Alabama, Georgia, North Carolina, Virginia, and Kentucky. Place the students into 8 groups and assigne each group a bordering state. Using encyclopedias and other reference books, have the students compare each bordering state's flags to Tennessee's flag. Use the following chart as a guide, marking with an **X** the characteristics of each flag.

Characteristics

	Blue	Red	White	Date	Seal	Stripes	Stars
Tennessee							
Missouri							
Arkansas							
Mississippi							
Alabama							
Georgia							
North Carolina							
Virginia							
Kentucky							

G is for the Grand Ole Opry and Goo Goo Bars

- Research the history of the Grand Ole Opry and the history of radio. Direct each student to find three facts and share their findings with the class.
- Listen to old time radio tapes. Record your own radio tape by having students tell jokes, read poems, and sing songs.
- Discuss advertisements and the sponsorship of the Grand Ole Opry by Goo Goo Candy Bars.
- Write a persuasive advertisement.

Class Activity - Class Letter

Write a class letter requesting information from the Grand Ole Opry on large chart paper.

Grand Ole Opry
2802 Opryland Drive
Nashville, TN 37214

Point out the parts of a letter as the letter is being composed. Are the students having difficulty remembering each part? Try this!

- | | |
|-------------------------|---|
| <u>Heading</u> | Students stand up and touch their head. |
| <u>Greeting</u> | Students touch their mouth and smile. |
| <u>Body</u> | Students touch their stomachs. |
| <u>Closing</u> | Students touch their shoestrings. |
| <u>Signature</u> | Students stamp their foot "leaving a footprint" signature |

Honeybees begin with H

(Tennessee's state insects - Honeybee, Firefly, & Ladybug)

- Invite a beekeeper as a guest speaker to discuss bees and bee keeping. Bring honey in a comb for students to taste.
- Book Suggestions
Joyful Noises - Poems for Two Voices by Paul Fleishman
The Bee Tree by Patricia Polacco
Fireflies in the Night by Judy Hawes
Fireflies by Julie Brinckloe
Buzzy the Bumblebee by Denise Brennan Nelson
(Sleeping Bear Press teacher's guide available on line for "Buzzy the Bumblebee")
- Invite an organic gardener as a guest speaker to discuss helpful insects in the garden.
- Collect insects to observe, then release back outside.

Class Activity - That's a Fact, Jack! / That's Your Opinion

Improve your students' ability to distinguish facts and opinions with this activity. Review with your students the difference between fact and opinion.

Place students into small groups. Read the following sentences and allow groups to discuss if each sentence is a fact or an opinion. After groups reach their decision, call on a group to respond together - "That's a fact, Jack" or "That's Your Opinion."

Fact: What is real; known to be true; truth

Opinion: Judgement; what one thinks or believes; impression

1. Honeybees make honey from the nectar they collect from flowers. (fact)
2. Ladybugs feed on insects harmful to plants. (fact)
3. Honeybees are the most helpful insects in the world. (opinion)
4. Fireflies are often seen in backyards on late spring and summer nights. (fact)
5. Ladybugs are exciting insects to watch. (opinion)
6. Pollen is carried to the bee hive on the hind legs of bees. (fact)
7. Catching fireflies is fun to do on a late spring night. (opinion)
8. Honeybees do not hibernate. (fact)
9. Farmers buy ladybugs to help control pests. (fact)
10. The cockroach would be a great insect to be designated as a state's insect. (opinion)
11. Fireflies use their flashes to communicate to each other. (fact)
12. Keeping a honeybee hive is a wonderful hobby. (opinion)

I is for Iris

- Display a vase of iris blooms. Instruct students to sketch a picture. Outline the flower with a purple crayon and the leaves with a green crayon. Complete by painting with purple and green watercolor.
- Read *Miss Rumphius* by Barbara Cooney. Plant Tennessee's state flower, the Purple Iris, on school grounds.

Jubilee Singers begins with J

- Research traditional black spirituals.
- Visit the following websites:
<http://www.fisk.edu/jubilee/Jubilee.htm>
The site www.pbs.org/wgbh/amex/singers contains a teacher's guide regarding the Jubilee Singers. Click on The American Experience - Jubilee Singers Sacrifice and Glory.
- Book Suggestions
The Drinking Gourd by F.N. Monjo
Aunt Harriet's Underground Railroad in the Sky
by Faith Ringgold.

Knoxville starts with the letter K

- Locate Nashville on a Tennessee map. Demonstrate how the map grid (B-7) helps locate the city on the map. Using the grid and index on the map, find other Tennessee cities. Instruct students to search for rivers, lakes and dams on the map and report the grid marking for their finding.
- Research the effect of the Tennessee Valley on recreation, farming, and manufacturing.
- Discuss the effect of erosion in the valley. Look for signs of erosion on the school grounds.

L is for Lookout Mountain

(Natural Wonders - Lookout Mountain - Caves)

- Research the natural tourist attractions in Tennessee. Have students pretend they are on the *Magic School Bus* and write a travel log telling about places to visit in Tennessee.
- Use a cardboard box and build a model of a cave. Review page X of *V is for Volunteer* for a picture of stalactites, stalagmites and columns.

Class Activity - Timeline of the Jubilee Singers

Use the timeline and page J of *V is for Volunteer* to answer the questions.

Timeline of the Jubilee Singers

- 1865 - January 9** Fisk University opened
- 1871 - October 6** The Jubilee Singers depart from Nashville on their first tour.
- 1872 - March 5** The Jubilee Singers perform for President Grant at the White House.
- 1872 - March 8** The Jubilee Singers perform at New York City's Steinway Hall.
- 1872 - May 6** The Jubilee Singers give their first European concert in London.
- 1875 - May 15** The Jubilee Singers embark for a three year European tour.
- 1878 - July 1** The Jubilee Singers disband after a final concert in Luneberg, Germany.

1. On what date did the Jubilee Singers depart on their first tour? _____
2. When did the Jubilee Singers perform at New York City's Steinway Hall? _____
3. Why did the Jubilee Singers begin touring?

4. Who was the President in 1872? _____
5. When did the Jubilee Singers give their first European concert? _____

Class Activity - Admission to the Knoxville World's Fair

The Knoxville World's Fair was held in 1982 with over eleven million people in attendance. Use the ticket price chart to solve the math story problems.

Ticket Price

Children Under 11	\$8.25
Adults 12 - 54	\$9.95
Adults 55+	\$9.25

Determine the admission fee for each group.

One adult age 46 and one child age 4	Two adults, ages 35 and 32
Two adults, ages 21 and 58	One adult, ages 40 and two children ages 7 and 9

Mockingbird starts with the letter M

- Invite a bird watcher as a guest speaker to inform students about bird watching. For one week have students keep a journal recording the names of birds they have seen and where they saw them.
- Mockingbird art project: Students sketch a mockingbird. Then using small torn pieces of construction paper, glue the pieces - overlapping the pieces to look like feathers.
- Research different types of birds found in Tennessee.

Class Activity - Mockingbird Plurals

Mockingbirds like to copy the songs of other birds. Practice writing singular and plural nouns with this mocking activity! The teacher writes the singular form on the chalkboard and the students write the plural form.

Teacher

Students

bird
song
nest
seed
egg

birds
songs
nests
seeds
eggs

branch
bush
fox
peach
dish

branches
bushes
foxes
peaches
dishes

cherry
story
fly
country
daisy

cherries
stories
flies
countries
daisies

mouse
foot
tooth
ox
sheep

mice
feet
teeth
oxen
sheep

Nashville begins with the letter N

- Make a time line showing when the different cities were Tennessee's capital. Create math problems using this data.
- Write a letter requesting information to the Nashville Chamber of Commerce.
- Research information about the four cities that have served as Tennessee's capital. Compare and contrast information regarding each city.

O is for Opossum

- Research information on the opossum, koala and the kangaroo. Define the word marsupial.
- What if humans had a pouch like opossum? Write an essay stating the pros and cons of having a pouch.
- Discuss the characteristics of a fable. Write a fable explaining why opossums play dead or have a pouch.

P is for the Presidents

- Make a chart comparing and contrasting Andrew Jackson, Andrew Johnson, and James K. Polk.
- Research information about the three Presidents and list interesting or unusual facts. Consider making a class book using the information.
- Book Suggestions
So You Want to be President by Judith St. George
Lives of the Presidents by Kathleen Krull

Q can stand for Quilts

- Invite a guest speaker from a historical society or an antique quilt expert to inform students about quilts.
- Make a large class quilt. Each student designs a block representing a special feature about themselves.
- Book Suggestions
Sweet Clara and the Freedom Quilt by Deborah Hopkinson.
The Josefina Story Quilt by Eleanor Coerr.

Class Activity - Searching for Common and Proper Nouns

Review with students common and proper nouns.

Common Noun: A common noun names any person, place, or thing.

Proper Noun: A proper noun names a particular person, place, or thing.

Instruct students to use pages N, O, P and Q of *V is for Volunteer*. Search for common and proper nouns in the poetry and informational passages. Record nouns on the following chart.

Examples: Common Nouns - state, town, house, kangaroo, quilt

Proper Nouns - Tennessee, Rose, Rosella, Andrew Johnson

Common Nouns

Proper Nouns

<i>Common Nouns</i>	<i>Proper Nouns</i>

Challenge Activity

Challenge your students to state a proper noun for the following common nouns.

Example: **Teacher response:** state

Possible student response: Tennessee or any state

Common Nouns

president, ocean, town, country, river, school

R is for Raccoon

- Research information on raccoons. List facts on an index card. Research other woodland animals and make additional fact cards. Determine if each animal is an omnivore, herbivore, or carnivore.
- Instruct students to draw a raccoon on a piece of paper. List adjectives describing the raccoon.

S is for Sequoyah

- Bring in samples of silver and discuss the trade of a silversmith.
- Make Cherokee Indian pudding. (Recipe at end of guide).
- Read *If You Lived with the Cherokee* by Peter Roop.
- Research Cherokee Native Americans.

The Trail of Tears Begins with T

- Research John Ross, Chief of the Cherokee Nation during the trail of tears.
- Book Suggestions
How Rabbit Tricked Otter and other Cherokee Animal Stories as told by Gayle Ross, descendent of John Ross.
The Cherokee by Emily U. Lepthien.
The Trail of Tears by R. Conrad Stein
- Website Suggestion
www.rosecity.net/tears/trail

U can be for Unikite






- Invite a geologist or gemologist as a guest speaker.
- Bring in examples of rocks, gems and minerals. Discuss the difference between metamorphic, sedimentary and igneous rocks.
- Use a balance scale and weigh sets of rocks. Estimate the weight of the rocks before weighing.
- Read *Everybody Needs A Rock* by Byrd Baylor.

Cooperative Learning Activity - Readable Pictures

Sequoya invented a Cherokee alphabet for the syllables used in Cherokee language. This allowed the Cherokee to communicate by reading and writing.

Let students experience the task of representing a word or phrase by pictures. Place students into groups to create a rebus story by drawing pictures or using a sticker in place of words. (*Highlight Magazine* features a rebus story in each issue. Gather several issues for examples to share with the class.)

Example

Susan's saw a huge  and  on her . She decided to take the  to school instead of riding her .

V is for Volunteer

- Discuss what it means to volunteer. List ways students and parents can volunteer at school or in the community.
- Research information on Davy Crockett, a Tennessee legislator and congressman. Discuss why Davy Crockett is a well-known volunteer.

Wilma Rudolph begins with W

- Research the history of the Olympics.
- Discuss the Olympic symbols and the type of Olympic events.
- Read *Wilma Unlimited* by K. Krull

X can be for Xanadu Cave - Y is for Yodel

- Compare Xanadu Cave and Mammoth Cave.
- List animals that live in caves. Discuss the features of the cave fish.
- Write to the National Speleological Society, Cave Avenue, Huntsville, AL 35810 Phone (205) 852-1300
- Demonstrate yodeling - "yo-de-lay-hee-hoooo"

Zebra Swallowtail begins with the letter Z

- Discuss symmetry and instruct students to draw a their own symmetrical butterfly and color accordingly.
- Watch the development of butterflies in your classroom. Cocoons can be ordered from Carolina Catalogue - Science and Math 1 800 334-5551 or visit the website www.carolina.com
- Book Suggestions
Butterflies for Kids by E. Jaediker Norsgaard
*I Wish I Were A Butterfly*_by James Howe
Where Butterflies Grow by Joanne Ryder
Where Does the Butterfly Go When It Rains? by May Garelick
- Discuss the four stages of butterfly development.
 1. Divide a paper plate in quarters.
 2. Label each quarter: Egg, Larva, Pupa, Adult and draw a paw paw plant in each section.
 3. In the first quarter glue rice to represent eggs.
 4. In the second quarter glue a piece of string or pipe cleaner to represent the caterpillar.
 5. In the third quarter glue a piece of cotton to represent the pupa.
 6. In the fourth quarter draw a Zebra Swallowtail. Use page Z of *V is for Volunteer* as a reference.

Cooperative Learning Activity - Compound Words

The Zebra Swallowtail became Tennessee's state butterfly in 1995. Butterfly is a compound word. Try this activity to increase students' knowledge of compound words.

Directions

Make the following set of word cards on index cards. Give each student one card. Instruct students to walk about the room in search of their partner to form a compound word. After all students have found their partner, read the compound words!

Word Cards

dog	sea
base	mail
side	book
brow	note
cake	way
rain	shell
air	book
house	high
ear	brush
walk	coat
tooth	eye
ring	corn
box	pan
pop	sun

Compound Words

doghouse
baseball
sidewalk
eyebrow
pancake
raincoat
airplane
toothbrush
earring
mailbox
popcorn
seashell
notebook
sunflower

Cherokee Indian Pudding

1 cup cornmeal	1 egg beaten
1 cup molasses	1 teaspoon vanilla
4 cups milk	1 teaspoon cinnamon
$\frac{1}{4}$ cup butter	$\frac{1}{4}$ teaspoon nutmeg

Scald three cups of milk. Mix cornmeal with remaining cup of milk and molasses. Add this mixture to the scalded milk. Bring mixture to a boil as you stir constantly. Reduce heat to low. Cook five more minutes. Remove from heat. Add butter, cinnamon, nutmeg, and vanilla to mixture. Stir in beaten egg. Pour mixture into a greased baking dish. Set dish in a larger baking pan filled with one-third water. Bake at 275 degrees for three hours.