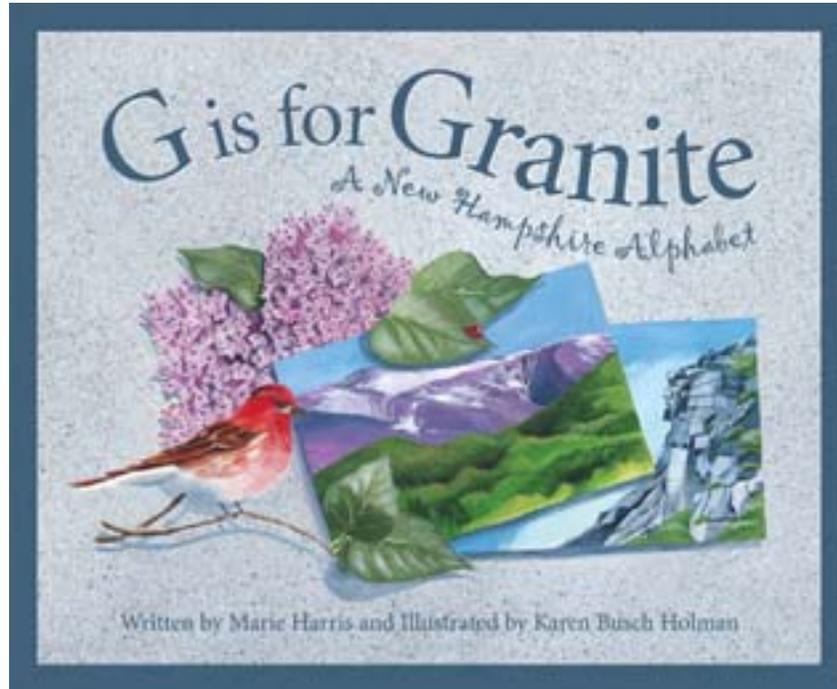


G is for Granite: A New Hampshire Alphabet

Teacher's Guide



Based on the book *G is for Granite: A New Hampshire Alphabet*

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New Hampshire

Read *G is for Granite* and carefully look at the illustrations and cover. Search for New Hampshire's state facts. Write your answers or draw an illustration in the spaces below.



State Flag and Seal
*(hint: look at letter "P"
or check out 50states.com)*



State Flower and Wild Flower

State Capital _____

State Tree _____

State Amphibian _____

State Animal _____

State Stone _____

State Freshwater Fish _____

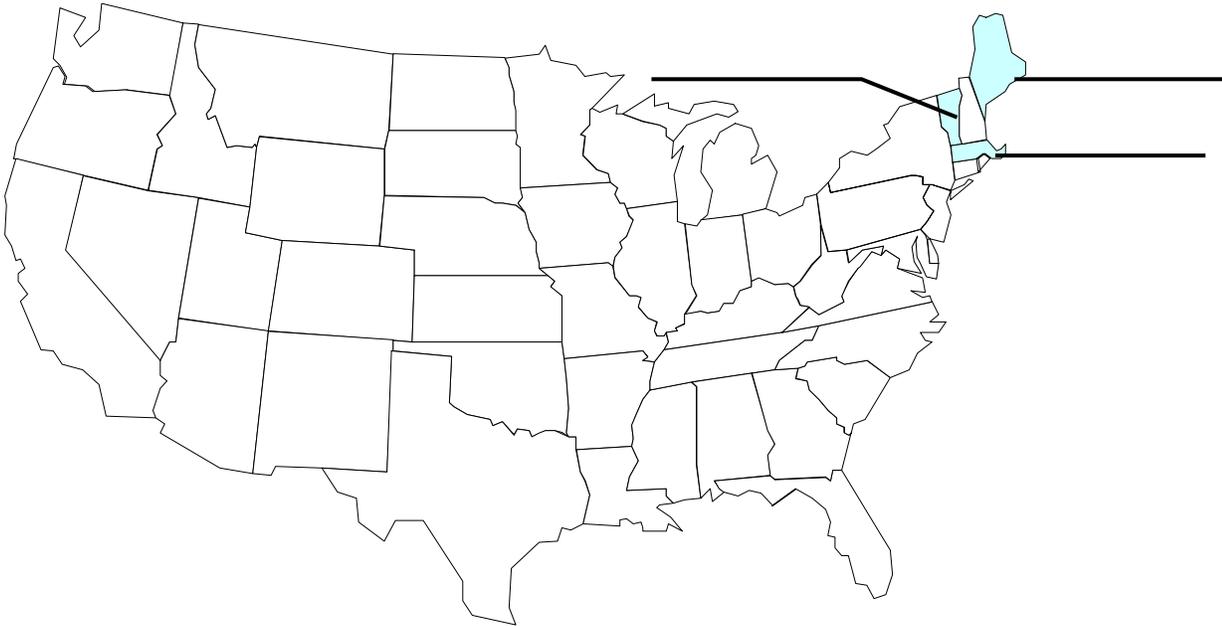


State Bird _____

New Hampshire

New Hampshire, one of the original 13 colonies, is the 9th state of the United States. New Hampshire is bordered on the north by Canada, on the east by Maine and the Atlantic Ocean, on the south by Massachusetts and on the west by Vermont.

Color in New Hampshire and label its bordering states.



Cut out the following cards and try to arrange the states in the order they achieved statehood. Check your answers with the chart on the next page.

New Hampshire	Delaware	New Jersey
Pennsylvania	North Carolina	Rhode Island
Maryland	Massachusetts	Georgia
New York	Virginia	South Carolina
Connecticut		

State	Statehood
Delaware	December 7, 1787
Pennsylvania	December 12, 1787
New Jersey	December 18, 1787
Georgia	January 2, 1788
Connecticut	January 9, 1788
Massachusetts	February 6, 1788
Maryland	April 28, 1788
South Carolina	May 23, 1788
New Hampshire	June 21, 1788
Virginia	June 25, 1788
New York	July 26, 1788
North Carolina	November 21, 1789
Rhode Island	May 29, 1790

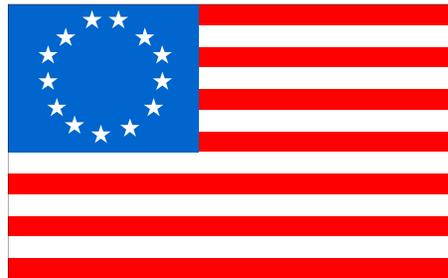
Use the chart to answer the following questions.

1. List the states that achieved statehood in December of 1787.

2. When did New Hampshire become a state?

3. Besides New Hampshire, what state achieved statehood in June of 1788?

The first official American flag had 13 stars and 13 strips. As more states joined the Union, congress decided to add one star for each new state.



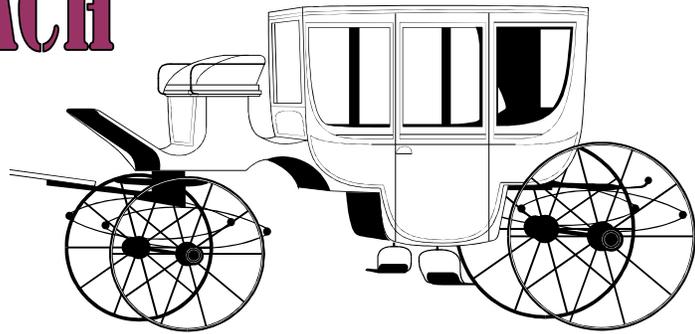
Compare the first American flag to today's flag.

CONCORD COACH

C is for the Concord Coach

What company is famous for making coaches?

Search for the answer on page C of *G is for Granite* to find out!



Words can have more than one meaning. Read these two meanings for the word *coach*.

Meaning One: An old-fashioned closed carriage

Meaning Two: A trainer or teacher

Directions: After each sentence, decide which meaning of coach was used. Check the correct box.

- The passengers traveled by coach to Concord.
 Meaning One Meaning Two
- The coach blew his whistle at his team.
 Meaning One Meaning Two
- Sarah's coach was proud of her improvement.
 Meaning One Meaning Two
- The coach was loaded with mailbags and gold.
 Meaning One Meaning Two

Your Turn Write your own sentence using the word coach.

Which meaning do you use?

- Meaning One Meaning Two

Search and Find

Use *G is for Granite* and play a game of search and find. Have a partner choose a word or word combinations from the list below. Search for the picture in the book. After you find the picture, read aloud the passage of that page to your partner. It's now your turn to choose a word and have your partner search and find!

Word List

1. Uncle Sam
2. Earth and other planets
3. *New Hampshire Gazette*
4. Treasure chest
5. Purple finch
6. Men playing fiddles
7. Strawberries
8. Black Jacks
9. Eagles
10. Gundalow
11. Stagecoach
12. Fox
13. Spotted newt
14. Pencil
15. American and New Hampshire flags
16. Binoculars
17. Quill pen
18. Skiers
19. Barrel of pickles
20. Christmas tree
21. Covered bridge

New Hampshire's Insect The Ladybug



Compound Words

The ladybug, also known as the ladybird, is the official state insect of New Hampshire. Ladybug and ladybird are also compound words. Try this activity to increase your students' knowledge of compound words.

Divide students into small groups. Provide each group with a drawing pad, pencil and the following compound word cards. Taking turns, one student picks a card and draws two pictures to represent the compound word. Students guess the compound word. Continue until all word cards have been used. Challenge the students to think of additional compound words.

ARM CHAIR ARMCHAIR	BAG PIPE BAGPIPE	BIRD BATH BIRDBATH	PAN CAKE PANCAKE
HEAD LIGHT HEADLIGHT	RAIN BOW RAINBOW	HOUSE BOAT HOUSEBOAT	COW BOY COWBOY
BOOK WORM BOOKWORM	BUTTER FLY BUTTERFLY	BED TIME BEDTIME	TOOTH BRUSH TOOTHBRUSH
SUN FLOWER SUNFLOWER	WATCH DOG WATCHDOG	JELLY FISH JELLYFISH	DOG HOUSE DOGHOUSE
STAR FISH STARFISH	TABLE SPOON TABLESPOON	BIRD HOUSE BIRDBHOUSE	NOTE BOOK NOTEBOOK

Where Am I?

Directions

Skim and search *G is for Granite* and read the following clues to discover interesting places in New Hampshire.

1. I am looking at a reflection in the water. I see a great stone face.
Where am I?

2. I am in the town of the first free, public supported library in the county. Where am I?

3. I am walking along the Black Heritage Trail. Where am I?

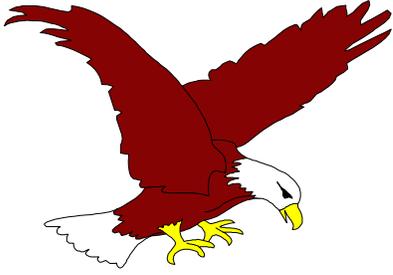
4. I am at the state capital. Where am I?

5. I am at the oldest brick textile mill in the United States. Where am I?

6. I am at the highest peak in New England where a 231 miles per hour wind was measured. Where am I?

7. I am at the home of Uncle Sam. Where am I?

8. I am at a place where legend says Blackbeard the Pirate buried his treasure. Where am I?



E is for Eagle

Look! An eagle perched on the dome!

Turn to page E of *G is for Granite* to see this magnificent sight and learn about our patriot bird.

Know – Want – Learned

Directions - In the first section list facts you know about the bald eagle. In the second section list questions you have about the bald eagle. Read the following passage and page E of *G is for Granite*, and then complete the third section by listing facts you have learned.

What I Know

What I Want to Learn

What I Learned

The American Bald Eagle

The bald eagle became our national emblem when the great seal of the United States was adopted. It was chosen due to its great strength and majestic looks. This patriotic bald eagle image appears in the seals of many of our states and on our coins.

The bald eagle is among the largest bird of prey. Male bald eagles generally weigh 7 to 10 pounds and have a wingspan of about 6 ½ to 7 feet. Females tend to be bigger and can weigh up to 14 pounds with a wingspan of 8 feet.

The bald eagle is easily identified. It is a dark brown bird with pure-white head, neck and tail feathers. The distinctive white feathers appear after the bird is 3 to 5 years old. The bald eagle has large, pale eyes and a powerful yellow beak.

Bald eagles have amazing eyesight. They have color vision and can identify prey a mile away. Their sharp vision is at least 4 times that of a person with 20/20 vision. They also have an inner eyelid that slides across the eye every three to four seconds that wipes away dirt and dust. This eyelid is called a nictitating membrane. It is translucent so the eagle can see through it.

Bald eagles are found in habitats near water, such as large rivers, lakes and seacoasts. Its habitat is determined by its diet, which includes fish. They nest in large trees and will continue to use and add to the same nest for many years.

The diet of the bald eagles is mainly fish, but they will also feed on small rodents, snakes, small birds and rabbits. Bald eagles have been seen hunting in pairs and stealing the prey of other birds by attacking until the prey is dropped.

Bald eagles were declared an endangered species in 1967. Farmers and rangers considered them a threat to livestock, development destroyed their habitat areas and water pollution resulted in a decreased eagle population. A toxic chemical, *dichloro-diphenyl-trichloroethane* (DDT), has a damaging effect on the bald eagles eggs. It causes the eggs to break due to a thinner shell before the baby eagles are ready to hatch. As the dangers of DDT became known, the chemical was banned for most uses in the United States. Due to recovery efforts by federal and state government agencies and private organizations, the bald eagle is making a steady comeback. They have improved greatly in numbers and security in recent years.

FAMOUS PEOPLE

Read *G is for Granite* to learn about some of New Hampshire's famous and important people. Match the name with the correct description.

Alan B. Shepard Jr.

"Mary Had a Little Lamb"

Christa McAuliffe

Shaw Memorial

Augustus Saint-Gaudens

New Hampshire's First
Women Governor

Robert Frost

First American in Space

Sarah Josepha Hale

Secretary of State for
Three Presidents

Jeanne Shaheen

First Citizen-Astronaut

Amos Tuck

"Stopping by the Woods on a
Snowy Evening"

Daniel Webster

Fourteenth President

Franklin Pierce

Established Republican Party



The Country Store

Pickles seem to taste better straight from the barrel! Read about the old-fashioned country store on page V of *G is for Granite*.

Gather the following coins (2 quarters, 3 dimes, 5 nickels and 2 pennies) and solve the problems below.

1. Determine how much money you have.
2 quarters, 3 dimes, 5 nickels, 2 pennies

2. Your first purchase is three gingersnaps. The gingersnaps cost 10 cents a piece. How much money did you spend? _____

How much money do you have left? _____

3. Next you buy one pickle for 50 cents. How much money do you have left? _____

4. Finally, you buy 25 pieces of penny candy. Each piece of candy costs one penny. How much money did you spend? _____

How much money do you have left? _____



Thank goodness for Sarah Josepha Hale! Read about her accomplishments on page H of *G is for Granite*.

Gratitude can change your attitude!
When you're feeling jealous, angry or sad, think of things you're thankful for and soon you will be glad!

I am thankful for. . .

Family _____

Friends _____

Nice things others have done _____

People who teach and help me _____

Trips I've enjoyed _____

Pets/Animals _____

Other things I'm thankful for _____

NEW HAMPSHIRE

Read the following clues, and then unscramble the New Hampshire words!

Famous for making coaches

BBAOT-WDOINNG PANYCOM

Author of "Mary Had a Little Lamb"

RASAH SEJOPHA ELAH

New Hampshire's state stone

RANIETG

Samuel Wilson's nickname

CLEUN ASM

The bowl-shaped basin on Mount Washington

CKTUREAMN'S VINERA

Abenaki word that means region of the lakes

IPEWINNSKUAEE

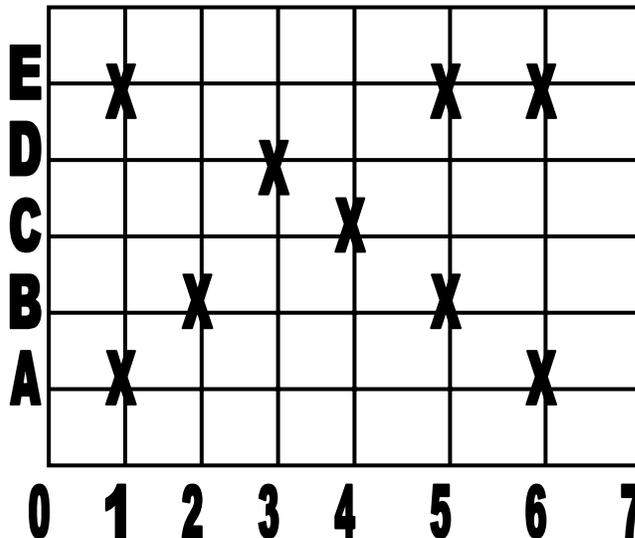
Treasure Hunt

According to legend there is buried treasure on the Isles of Shoals. Read page I of *G is for Granite* to discover interesting facts about these rocky islands of New Hampshire.

Which X marks the spot? Find the treasure by following the clues.

Treasure Hunt Clues

Start at 0.
Go 5 steps to the right.
Go 4 steps up.
Go 3 steps to the left.
Go 2 steps down.
Circle the X.



Make Your Own Treasure Hunt

Write your own clues for a friend to solve. Determine which X you want to be the treasure X. Start at 0 and determine the direction and number of steps needed to reach the X.

Treasure Hunt Clues.

Start at 0.
Go ____ steps to the _____.

**Extra! Extra!
Read All About It!**



Would you like to be a reporter for the *New Hampshire Gazette*? Practice your reporting skills by covering the Presidential Primary on page P of *G is for Granite*.

Headline _____

Who _____

What _____

When _____

Where _____

Why _____

How _____

Questioning the Teacher!

Classroom Activity

Place students into five groups. Assign each group a section of *G is for Granite*. Instruct students to review their assigned section and write questions for the teacher to answer. Inform students to write an answer guide for their questions.

After an appropriate amount of work time, instruct each group to choose one question to ask the teacher. If time allows, continue to let students ask questions for the teacher to answer.

Selection Suggestion

Group

Letters

1	A,B,C,D,E
2	F,G,H,I,J
3	K,L,M,N,O
4	P,Q,R,S,T
5	U,V,W,X,Y
ALL GROUPS	Z

Extension Activities

- *Have each group trade their list of questions for the other group to answer. Trade answer guides to check answers.*
- *Reassign groups to a different section of the book and repeat the activity.*
- *Share with students the "hidden math" behind the activity. 26 letters divided by 5 groups of students, each group responsible for the remainder. $26 \div 5 = 5$ remainder 1. Challenge students to determine ways to distribute the 26 letters if the class were to be divided into groups of 2,3,4, or 6. Were you able to divide the groups evenly within your class? Discuss other possible ways to distribute the letters among the groups. For example, each group could be responsible for all the vowels and 2 consonants of their choice.*

Cross Out Three in A Row

Learning can be fun! Play *Cross out Three in A Row* and students will enjoy working on their reading skills!

Classroom Activity - Cross Out Three in A Row

Directions

1. Read *G is for Granite*.
2. Make a copy of the following game board on the chalkboard or chart paper and place students into teams.
3. Call on each team, using the *A Stagecoach of Facts* or questions from the *Questioning the Teacher* activity. Ask each question in order.
4. Before the question is read, each team decides which letter to select from the game board. If the team correctly answers the question they are awarded the square. (Each team uses a different color chalk or marker to cross out their square.)
5. If the team answers incorrectly, there is no penalty and the square remains open.
6. The first team to get three squares in a row is the winner. The squares can be adjacent, horizontal, vertical or diagonal.

Cross Out Three in A Row

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y

ANSWER PAGE

New Hampshire – Chart of Statehood

1. Delaware, Pennsylvania, and New Jersey
2. June 21, 1788
3. Virginia

Concord Coach

1. Meaning one
2. Meaning two
3. Meaning two
4. Meaning one

Search and Find

1. U
2. A
3. N
4. I
5. D
6. M
7. S
8. B
9. E
10. G
11. C
12. F
13. L
14. W
15. P
16. O
17. Q
18. T
19. V
20. Y
21. X

Where Am I?

1. Profile Lake
2. Peterborough
3. Portsmouth
4. Concord
5. Belknap Mill - Laconia
6. Mount Washington
7. Mason
8. Isles of Shoals

Famous People

Alan B. Shepard Jr. - First American in space
Christa McAuliffe - First citizen-astronaut
Augustus Saint-Gaudens - Shaw Memorial
Robert Frost - "Stopping by the Woods on a Snowy Evening"
Sarah Josepha Hale - "Mary Had a Little Lamb"
Jeanne Shaheen - New Hampshire's first women governor
Amos Tuck - Established Republican party
Daniel Webster - Secretary of State for three presidents
Franklin Pierce - Fourteenth President

The Country Store

1. \$1.07
2. The cost of the gingersnaps was 30 cents. 77 cents left.
3. 27 cents left
4. The cost of the penny candy was 25 cents. 2 cents left.

New Hampshire Unscramble

1. Abbot-Downing Company
2. Sarah Josepha Hale
3. Granite
4. Uncle Sam
5. Tuckerman's Ravine
6. Winnepesaukee

Treasure Hunt - The treasure x is at B2.

New Hampshire Crossword

1. Concord
2. Purple finch
3. White birch
4. Christa McAuliffe
5. Black Jacks
6. Sagamore
7. Peterborough
8. Spotted newt
9. White-tailed deer
10. Celia Thaxter
11. Brook trout
12. Pierce