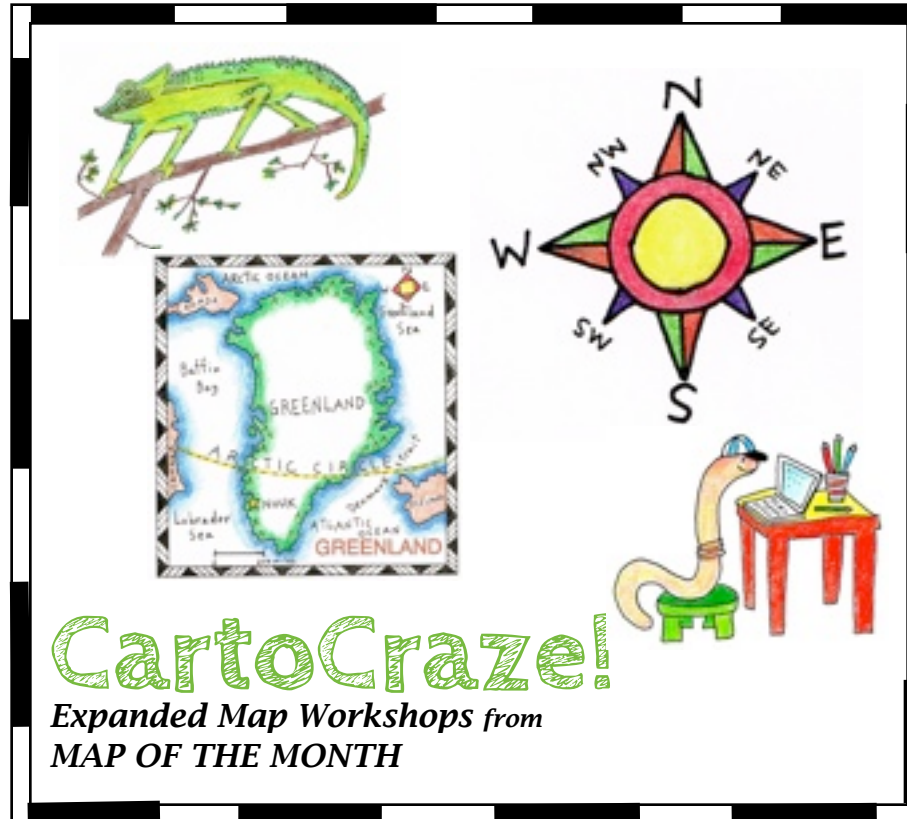


APPALACHIAN MOUNTAINS



CartoCraze!
Expanded Map Workshops from
MAP OF THE MONTH

CartoCraze!

Expanded Map Workshops

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MOUNTAINS



This vista of the beautiful Valley of the Ten Peaks, in the Canadian Rockies, is a fine example of why mountains inspire our sense of wonder!

The height of mountains are measured from sea level. Low altitude mountains can support vegetation year round and the highest peaks have only snow and cold. Mountains are home to a wide variety of plants and animals, and humans have adapted to living around and on mountains.

This presentation is an introduction to the DENALI, one of the world's great mountains, with some information about mapping, geography, people and animals of this mountainous region.

People throughout human history have been fascinated with mountains. Their majesty and size fills us with wonder! Mountains have inspired religion and mythology. They are the setting for stories, tall tales and literature. Men and women have set out on adventures and accomplish epic feats in mountainous terrain. For the average person, they provide places for sport activities and vacations!

A mountain is one of our planet's major landforms. A group of mountains forms what is called a range. Mountains are areas of earth that rise up sharply in peaks or mounded shapes, with different elevations.

Mountains can be small or large, and are formed in several ways. When the tectonic plates of the earth's surface move towards each other and crumble, they caused the earth to rise in peaks. When this movement of plates allow the hot magma beneath the earth's surface to rise up, volcanic peaks are formed.

MOUNTAIN TERMS AND THEIR DEFINITIONS

It is impossible to talk about MOUNTAINS, or learn about them, without knowing some terms that relate to MOUNTAINS. Here are just a few terms! Can you come up with other terms related to mountains?



RANGE A range is a group of mountains that are geographically related. Sometimes a large mountain range is made up of many smaller ranges.

SUMMIT The highest point of a mountain.

ELEVATION The elevation of a place is often described as its height above sea level. A mountain's elevation is determined by its highest point, or summit.

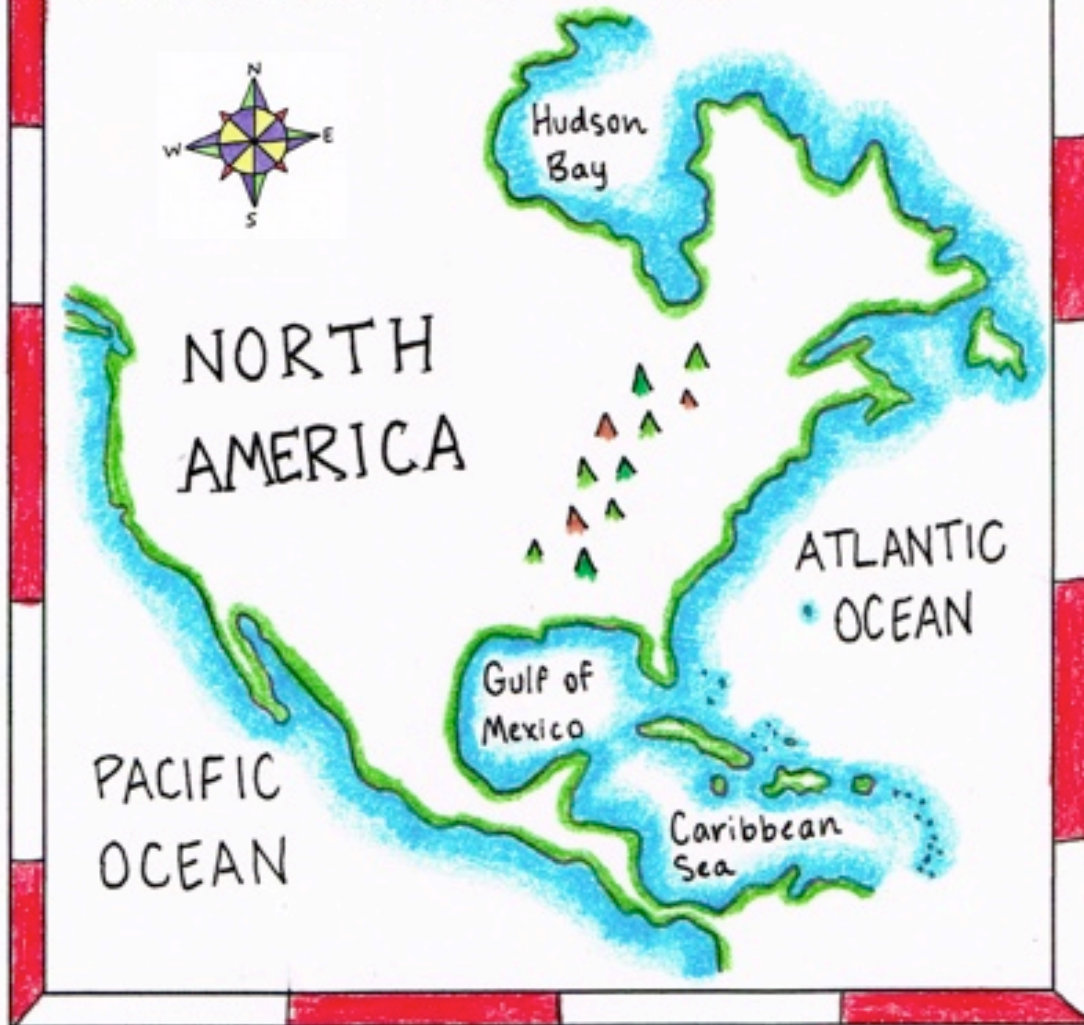
SEA LEVEL This is a base measurement for determining the height of mountains. The seas and oceans of the world vary slightly in height due to weather and geography so Sea Level is an average called "Local Mean Sea Level."

RIDGE A chain of mountains whose upper section form a continuous line over a distance.



The following presentation is an introduction to the APPALACHIAN MOUNTAIN RANGE with guidelines about making a map, as well as some information about its geography, people and animals.

APPALACHIAN MOUNTAINS



The Appalachian Mountains

The Appalachians are a great North American mountain range, extending from Newfoundland, in the country of Canada, to the southern state of Alabama in the United States. The deep mountainous ridges of this range run north to south. Scientists speculate that this feature encouraged migration of animals from north to south in the prehistoric era. This was also a physical feature that delayed westward movement in the colonial days of early America.

Some of the smaller ranges that make up this large range are the White Mountains, Green Mountains and the Berkshires in the North, the Taconic Mountains in the central area, and the Blue Ridge Mountains and Cumberland Plateau in the south.



I am Professor Earthworm

Make a compass rose for your map by following the directions [HERE!](#)

HOW THE TRAIL CAME TO BE!



Mount Katahdin's Hunt Spur,
at the beginning of the Appalachian Trail

The Appalachian Trail was an idea that emerged in the 1920's. The plan was to organize rural farms and camps along the length of the Appalachian Mountains to give urban dwellers a chance to get away from the cities.

This early idea never took hold, mostly due to the huge size of the project. Gradually over time, trailblazers worked the mountain range to open up walking spaces. Finally the trail become a continuous "wilderness" footpath in 1937.

Now the Appalachian Trail is an estimated length of 2,175 miles from Springer Mountain in Georgia, to Baxter Peak on Katahdin in central Maine.

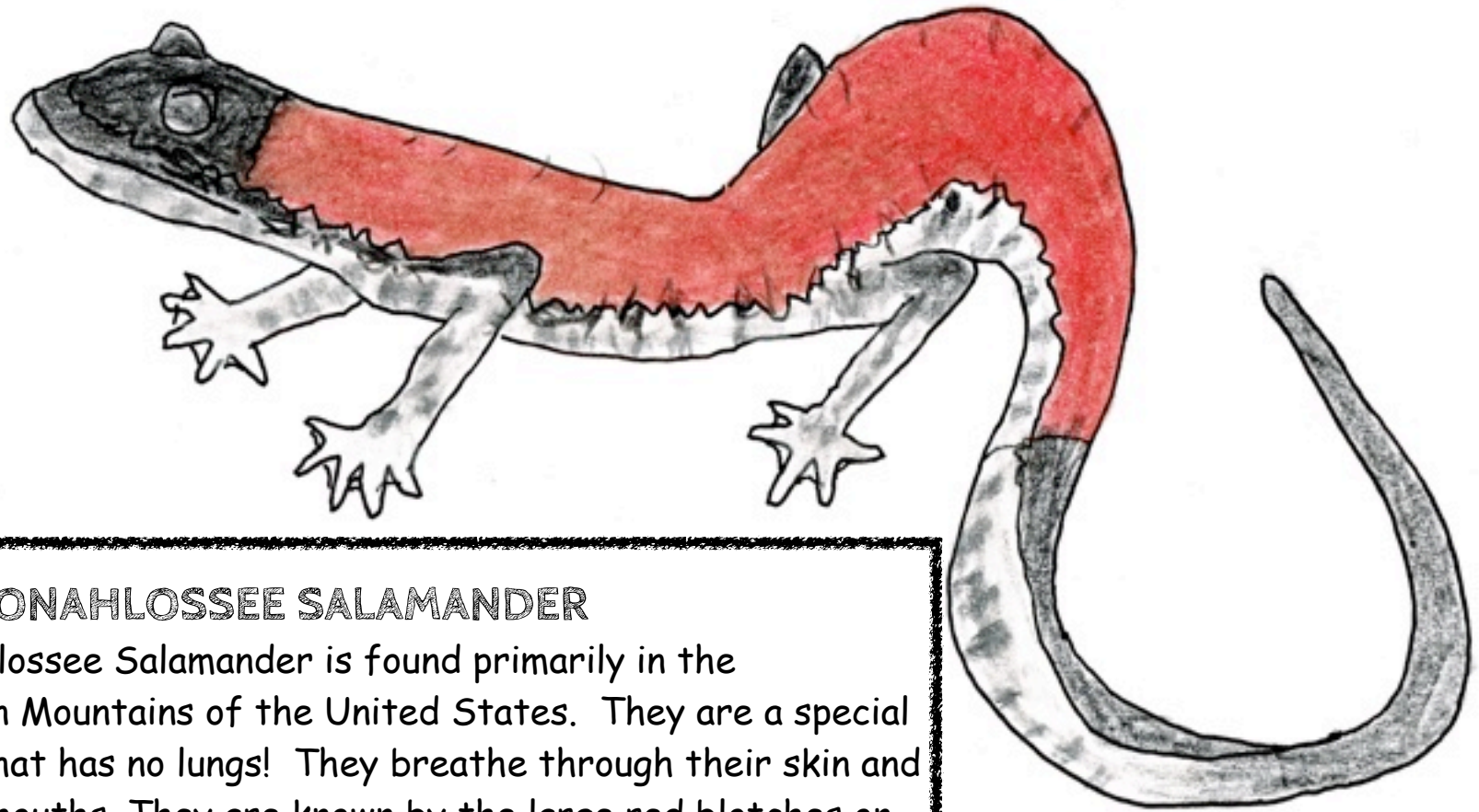
Hikers walk for pleasure, exercise and sometimes extreme physical challenges! The trail ranges in difficulty, from flat and smooth to very strenuous climbs requiring scrambling in rocks and leaping! Also the trail allows hikers to enjoy the beauty of the terrain and to witness many species of animals.



Write a small essay or poem about a long walk or a hike you have taken. Who was with you? What was your starting point? When did you do it? Where was your destination? Why did you do this?

The Georgia Appalachian Trail Club commemorated their love of the trail with this plaque:

“Appalachian TRAIL, Georgia to Maine. A footpath of those who seek Fellowship in the Wilderness”

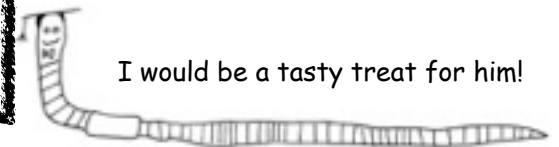


YONAHLOSSEE SALAMANDER

The Yonahlossee Salamander is found primarily in the southern Appalachian Mountains of the United States. They are a special type of salamander that has no lungs! They breathe through their skin and the tissue in their mouths. They are known by the large red blotches on their black bodies. Younger salamanders usually have more red blotches: in the older ones salamanders the blotches tend to blur together into one large band. These red markings can be found on their bellies too!

They live in woodland areas, in logs, and stumps and burrows. These shelters provide protection from predators like birds and small mammals. They have a unique way of escaping from predators. They can secrete a noxious substance that deters their enemies.

These salamanders are carnivorous and feast on spiders, millipedes and EARTHWORMS!



I would be a tasty treat for him!

APPALACHIAN MOUNTAINS



VOCABULARY WORDS

Turn your map over and
define these words

underground
migration
noxious
secretion
humid
deciduous
lungless
ravine
terrestrial
pigment

SPELLING WORDS

hillside
groove
blotch
elevation
underground
pollution
predator
locale
defend
dorsal

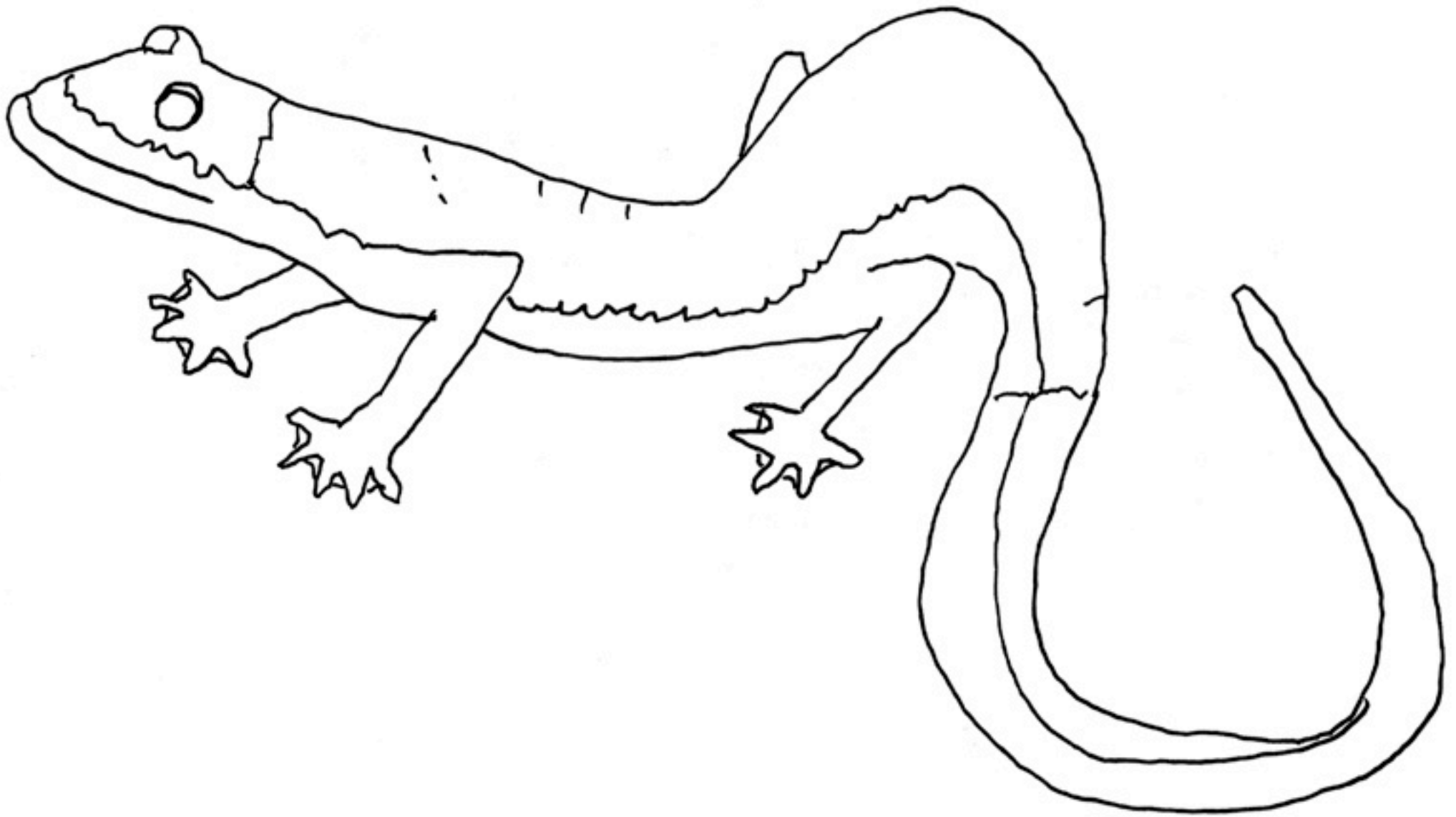


APPALACHIAN MOUNTAINS

PRINT THIS PAGE:
COLOR AND LABEL THE MAP, BOTH
LANDFORMS AND WATER.

ADD A COMPASS ROSE
TO YOUR MAP!

COLOR THE YONAHLOSSEE SALAMANDER



YONAHLOSSEE SALAMANDER

DANIEL BOONE

Daniel Boone
Escorting Settlers
through the
Cumberland Gap,
oil painting on
canvas, 1851-1852,
Painting by George
Caleb Bingham



George Caleb Bingham was a famous American painter. He captured many famous events and people in his work. Research to find out about him and other places and events he depicted.

In 1775 Daniel Boone was the first to blaze a trail through the Cumberland Gap in the Appalachians.

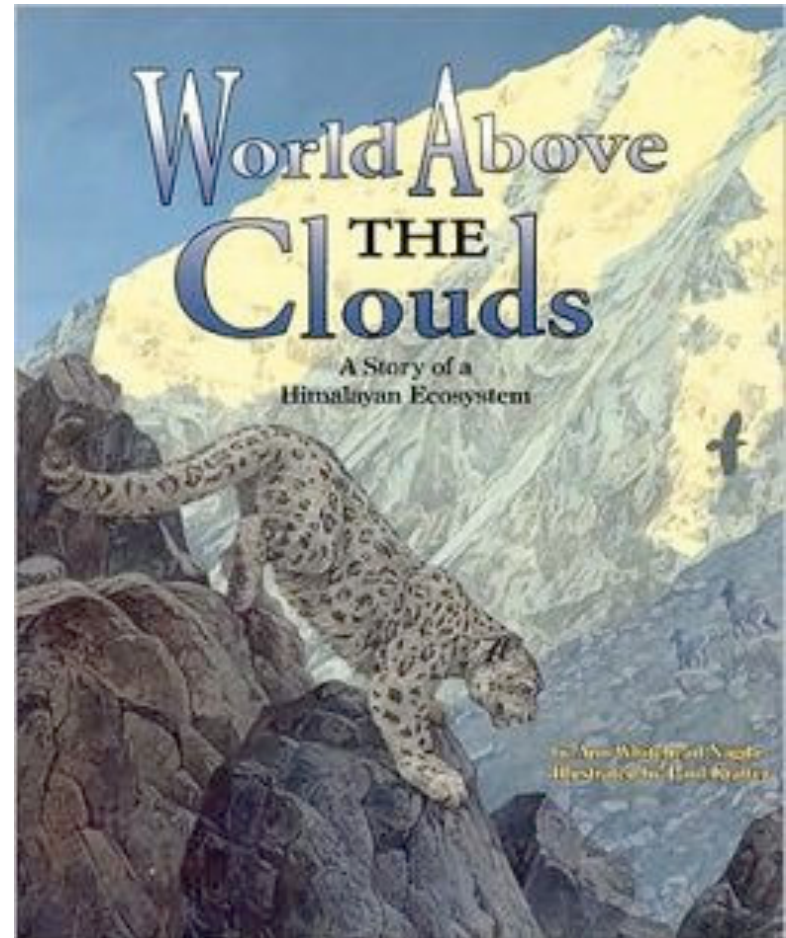
Boone's efforts allowed people to move beyond the Appalachians into the Kentucky and Virginia, areas west of the range. This trail further developed into the Wilderness Road, which for fifty years was the route most taken for pioneers moving east to west. Even though the Trail was steep and treacherous, thousands of people on foot and horseback used it to "Go West."



MOUNTAIN READING LIST!

World Above the Clouds: A Story of a Himalayan Ecosystem by Ann Whitehead Nagda

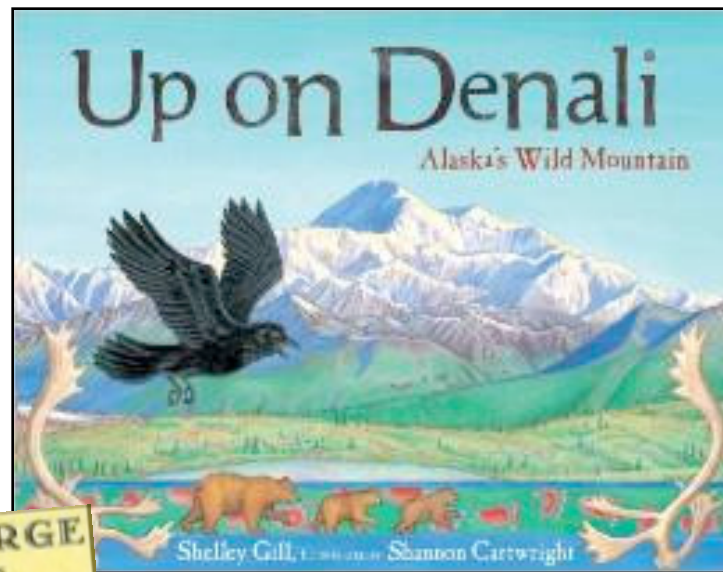
High in the snow-covered Himalayan peaks of northern India, a snow leopard has left the care of her mother and now must hunt and fend for herself. In the first few days alone she competes for her meals with a red fox, a bearded vulture, and even nearby villagers.



HEIDI

by Joanna Spyri

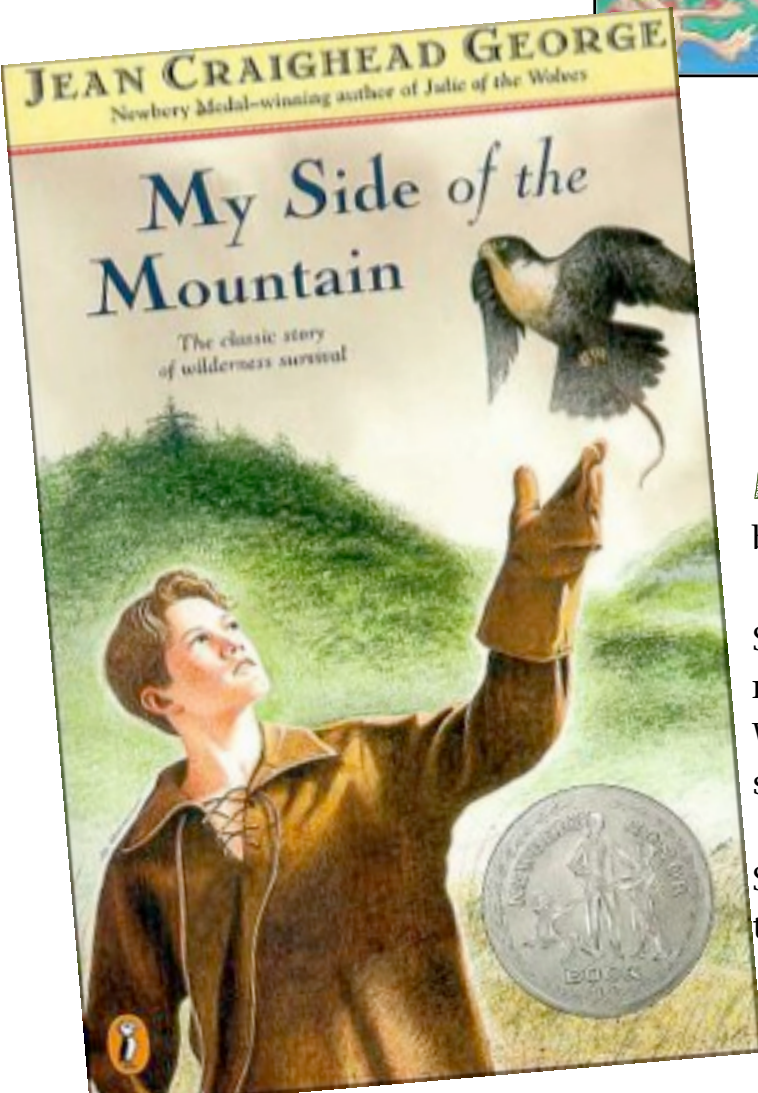
At the age of five, little orphan Heidi is sent to live with her grandfather in the Alps. Everyone in the village is afraid of him, but Heidi is fascinated by his long beard and bushy grey eyebrows. She loves her life in the mountains, playing in the sunshine and growing up amongst the goats and birds. But one terrible day, Heidi is collected by her aunt and is made to live with a new family in town. Heidi can't bear to be away from her grandfather; can she find a way back up the mountain, where she belongs?



UP ON DENALI

by Shelley Gill and Shannon
Cartwright

From its origins as a trick played by Raven (the scientific version involving plate tectonics is also included) to the flora and fauna and human explorations, this colorful children's book reveals every facet of Alaska's great Denali Mountain. This book is full of fun and fascinating information.



MY SIDE OF THE MOUNTAIN

by Jean Craighead George

Sam Gribley is unhappy living in New York City with his family, so he runs away to the Catskill Mountains to live in the wood, by himself. With only a penknife, a ball of cord, forty dollars, and some flint and steel, he intends to survive on his own.

Sam learns about courage, danger, and independence during his year in the wilderness, a year that changes his life forever.

TRAILS WEST

This map shows some of the trails that took pioneers, explorers and traders westward. Over the 3,000 miles from coast to coast, there was a vast wilderness to cross. The topography was varied: there were rivers, plains, mountains and deserts. Some routes took people to start new lives, and other routes were used for commerce and trading. By looking at the current day boundaries, shown here in gray line, you can see exactly where these trails were. Although some state boundaries were in place in the east at the beginning of the westward movement, it took many years before the vast western territories were established as states.

Long before the time of the trailblazers, native American settlements had been in place for countless generations. These many tribes are a big part of the story of the westward movement. Some natives were both friendly and helpful to pioneers. Other tribes were combative, fearful of losing the land they had lived on for so long.

For the most part, natives did not believe that the land could be "owned" by anyone, so this idea created conflict when the settlers claimed land.

A famous means of transportation in the early American west was the covered wagon. Wagons had large wheels and rib-like hoops covered with a heavy fabric. Wagons were often pulled by mules or oxen.

Wagons were used to transport belongings, not to live or sleep in. There were rarely places to make purchases along the trails, so lots of provisions were carried. For safety and comfort, people traveled in groups that were called Wagon Trains.

Two different kinds of wagons were common. The Prairie Schooner was shaped straight across the top. The top of the Conestoga Wagon was shaped into peaks at front and back to help balance and store the goods inside more effectively. Draw and color a picture of either style of covered wagon on the back of the map.



MAP KEY

- River (blue)
- Mountains (brown/green)
- Valley (green)
- Plains (green)
- City
- Fort
- Wilderness Trail
- Great Wagon Road
- Forbes Road
- Water Trails
- Cumberland Road
- Oregon Trail
- California Trail
- Mormon Trail
- Santa Fe Trail
- Lewis and Clark
- Butterfield Route
- Mexican Cession
- Louisiana Purchase
- Oregon Country
- Florida (1819)
- Desert area (brown)

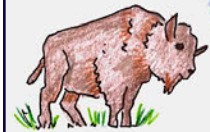
- ### CITIES
- Label these cities marked on the map:
- | | | |
|--------------|---------------|----------------|
| Montreal | St. Louis | Boston |
| Providence | Baltimore | Richmond |
| Columbia | San Francisco | Salt Lake City |
| Pittsburg | Harrisburg | Vandalia |
| Independence | Council Grove | Council Bluffs |
| The Dalles | Portland (OR) | Santa Fe |

- ### FORTS
- Using the symbol in the MAP KEY label some forts that aided travelers moving west, and add others if you like:
- | | | |
|---------------|------------|-----------|
| Fort Atkinson | Fort Riley | Fort Hall |
|---------------|------------|-----------|

DECORATION:

Complete the intermediate points of the Compass Rose and color it. Label the cardinal and intermediate directions. Color the map title and various illustrations.

TRAILS WEST map, copyright 2009, MAP OF THE MONTH, East Side Station, P. O. Box 2484, Providence RI 02906 www.mapofthemonth.com



TROUBLES ON THE TRAIL!

The pioneers faced many difficulties as they moved westward. Turn this map over and write about this topic, using these vocabulary words, and others!

emigrants wagons trail provisions diseases frontier maps settlement gold seasons Thirteen Colonies valley Great Lakes desert mountains Native American plain Continental Divide predators

EARLY ROADS

Indian and buffalo trails were the earliest trails. The Wilderness Trail, first forged by Daniel Boone, became a favored route across the Appalachians. The Forbes Road passed through western Pennsylvania. The Cumberland (or National) Road was the first road extended by the Federal government.

WATERWAYS

Pioneers traveled on rivers and through the Great Lakes to go as far west as possible by water. The Ohio River led to the Mississippi River, then to the Missouri River. Travelers reached the towns of Independence, St. Joseph and Westport where they could start overland travel. The Erie Canal, finished in 1825, extended water travel.

OREGON TRAIL

Thousands traveled the dangerous journey from the Missouri River over the Rockies to Oregon Country. Fertile land, like the Willamette Valley between the Coastal Range and the Cascades, was the goal.

CALIFORNIA TRAIL

This trail was the same as the Oregon Trail to the Rockies. Here the route headed over the Sierra Nevada Desert and Mountains, a difficult passage. People headed to California for fertile land, later for the Gold Rush.

MORMON TRAIL

The Mormons were a well-organized religious group. The trail they blazed led them to their chosen destination, Salt Lake City.

SANTA FE TRAIL

This trail was commercial, used primarily by traders.

BUTTERFIELD ROUTE

This long trail was short lived, used for mail delivery.

LEWIS AND CLARK EXPEDITION

President Thomas Jefferson chose Lewis and Clark to explore the Northwest Passage. From 1804 to 1806 the members of their group traveled to explore the west, studying the topography of the land as well as plants and animals.

OTHER ROUTES

Other explorers like Zebulon Pike, Jim Bridger, Jedediah Smith and Robert Gray also explored unknown parts of the West from the Mississippi all the way to Alaska.

MAP ACTIVITIES

GEOGRAPHIC FEATURES

Label and shade the following bodies of water shown on the map:

Atlantic Ocean	Pacific Ocean	Gulf of Mexico
Saint Lawrence River	Mississippi River	Missouri River
Rio Grande River	Colorado River	Columbia River
Snake River	Lake Superior	Lake Michigan
Lake Huron	Lake Erie	Lake Ontario

With a blue pencil, draw in the Erie Canal, which was used for travel.

Some of the Appalachian Mountains and the Rocky Mountains have been drawn in. Using the symbol in the MAP KEY, complete these ranges and label them. Draw and shade these other mountain ranges: Coastal Range Cascade Range Sierra Nevada Mountains Blue Mountains of Oregon

LAND AREAS

The boundaries of the Louisiana Purchase (1803) and Florida (acquired from Spain in 1819) are already drawn in on the map (see outlines in MAP KEY). Label and date these areas. Shade their boundaries with colored pencils.

Using the territory outline (same outline as for Louisiana Purchase) in the MAP KEY, draw, label and shade the following areas with different colored pencils:

- Oregon Country (acquired in 1846)
- The Mexican Cession of 1848

Fill in and shade these areas with the valley symbol in the MAP KEY. Label these fertile areas which were settled: Willamette Valley Sacramento Valley

STATES

Label the states east of the Mississippi River at the time of the Louisiana Purchase.



Map of the Month

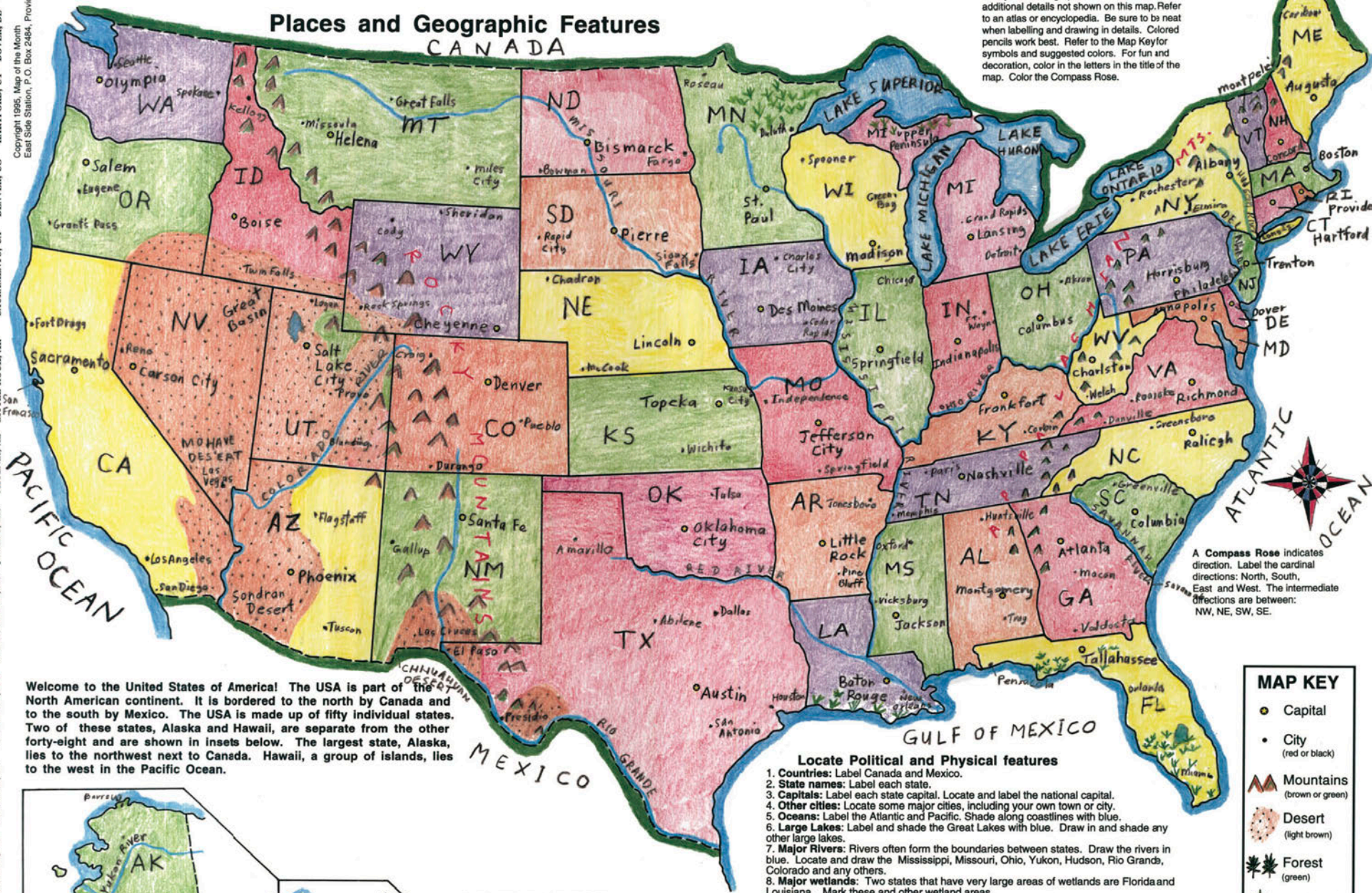
United States of America

Places and Geographic Features

CANADA

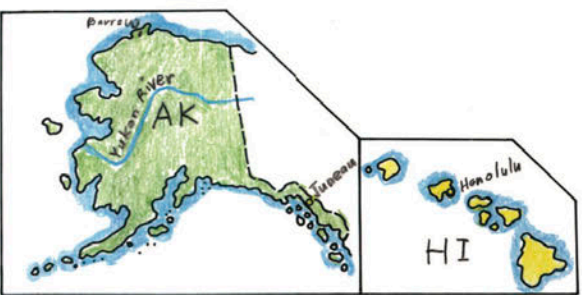


Your job as cartographer is to fill in some additional details not shown on this map. Refer to an atlas or encyclopedia. Be sure to be neat when labelling and drawing in details. Colored pencils work best. Refer to the Map Key for symbols and suggested colors. For fun and decoration, color in the letters in the title of the map. Color the Compass Rose.



A Compass Rose indicates direction. Label the cardinal directions: North, South, East and West. The intermediate directions are between: NW, NE, SW, SE.

Welcome to the United States of America! The USA is part of the North American continent. It is bordered to the north by Canada and to the south by Mexico. The USA is made up of fifty individual states. Two of these states, Alaska and Hawaii, are separate from the other forty-eight and are shown in insets below. The largest state, Alaska, lies to the northwest next to Canada. Hawaii, a group of islands, lies to the west in the Pacific Ocean.



On the main map, the scale is one inch equals about 150 miles. Because of space limitations, these insets are not drawn to the same scale as the main map. Look at a globe and you'll see that Alaska is much bigger than Texas!

Locate Political and Physical features

1. Countries: Label Canada and Mexico.
2. State names: Label each state.
3. Capitals: Label each state capital. Locate and label the national capital.
4. Other cities: Locate some major cities, including your own town or city.
5. Oceans: Label the Atlantic and Pacific. Shade along coastlines with blue.
6. Large Lakes: Label and shade the Great Lakes with blue. Draw in and shade any other large lakes.
7. Major Rivers: Rivers often form the boundaries between states. Draw the rivers in blue. Locate and draw the Mississippi, Missouri, Ohio, Yukon, Hudson, Rio Grande, Colorado and any others.
8. Major wetlands: Two states that have very large areas of wetlands are Florida and Louisiana. Mark these and other wetland areas.
9. Deserts: The southwest USA has more dry arid land than any other area. Locate and draw in one or more of these areas.
10. Mountain ranges: Two major mountain ranges are the Rocky Mountains and the Appalachian Mountains which span many states. Draw and shade them lightly so you don't cover up other important features.

MAP KEY

- Capital (red or black)
- City (red or black)
- ▲ Mountains (brown or green)
- ◐ Desert (light brown)
- Forest (green)
- Wetland (green)
- River (blue)

