Step-by-Step Guide for Each Section

## Key for Braille and sighted guide at the end of this document

# Mountain Ranges Map

(sighted guide needed)

## Objective)

Students will be able to identify the three major mountain ranges in the United States.

## Step 1)

The guide needs to take out the object and place it in front of the students.

## Step 2)

The guide needs to direct students to the appropriate square on the object (upper left corner).

## Step 3)

Students will feel the three mountain ranges on the map of the United States.

## Step 4)

The guide will explain each mountain range -

* + - * + The Sierra Nevada - Located in California
        + The Rocky Mountains - Located in Idaho, Montana, Wyoming, Utah, Colorado, and New Mexico
        + The Appalachian Mountains - Located in Maine, Vermont, New Hampshire, New York, Pennsylvania, Massachusetts, Maryland, West Virginia, Virginia, North Carolina, South Carolina, Kentucky, Tennessee, Alabama, and Georgia

## Questions on Mountain Ranges)

### Question 1)

If I am in Los Angeles, California and want to go on a hike, what is the closest mountain range I should go to?

#### Answer 1)

I should go to the Sierra Nevada.

### Question 2)

If I wanted to hike through the longest mountain range in the United States, which mountain range should I go to?

#### Answer 2)

I should go to the Rocky Mountains.

### Question 3)

If I was driving down the East Coast of the United States, what mountain range would I pass by?

#### Answer 3)

I would pass by the Appalachian Mountains.

# Time zone map

(sighted guide needed)

## Objective)

Students will be able to identify the six time zones in the United States and where each time zone is located.

## Step 1)

The guide will need to take out the object and the necessary pieces of the 4 major time zones in the United States.

## Step 2)

The guide will need to place the object and pieces in front of the students and direct them to the appropriate section on the object (upper right corner).

## Step 3)

Students will feel the map of the United States and try to put the pieces in their places on the map.

## Step 4)

The guide will then explain a little bit about time zones -

* + - * + What is a time zone? - A time zone refers to the local time in a region.
        + Why do we have time zones? - Around the world the Sun rises and sets at different times because certain places on Earth can be closer or farther away from the Sun. Time zones are created so people in California can wake up at 8:00 am and have sunshine. However, people in Massachusetts also want to wake up at 8:00 am to sunshine so the time zone where Massachusetts is located is 3 hours ahead of the time zone where California is located. This means at 8:00 am in Massachusetts the sun has already risen and in California it is 5:00 am and the sun has yet to rise.
        + What is the difference in time between all of the time zones in the United States? -

Eastern Time - 6:00 pm

Central Time - 5:00 pm

Mountain Time - 4:00 pm

Pacific Time - 3:00 pm

Alaska Time - 2:00 pm

Hawaii-Aleutian Time - 1:00 pm

## Questions on time zones)

### Question 1)

If I am in Ohio and I would like to call my friend in California at 9:00 am, what time should I call her?

#### Answer 1)

I should call her at 12:00 pm as Ohio is in the Eastern Time time zone which is 3 hours ahead of the Pacific Time time zone where California is located.

### Question 2)

If I live in Alaska and my friend lives on the eastside of Texas, when should I call her if I want it to be 1 pm in Texas?

#### Answer 2)

I should call my friend at 10 am as the east side of Texas is 3 hours ahead of Alaska.

### Question 3)

What time is it in Hawaii if it is 3 pm in Maine?

#### Answer 3)

It is 10:00 am in Hawaii as Maine is 5 hours ahead of Hawaii because Maine is in Eastern Time and Hawaii is in Hawaii-Aleutian Time.

# Major rivers and the Great Lakes map

(sighted guide needed)

## Objective)

Students will be able to identify the 6 major rivers in the United States, where they are located, and where the Great Lakes are located.

## Step 1)

The guide needs to take out the object and the major river pieces (6 pieces).

## Step 2)

The guide needs to place the object and pieces in front of the students and direct them to the appropriate section on the object (bottom left corner).

## Step 3)

The students can feel the pieces and the map and try to place the rivers in their places.

## Step 4)

The guide will then explain the name of each river and the states it runs through -

* + - * + The Mississippi River - Runs from the Gulf of Mexico and in between Mississippi and Louisiana, Arkansas and Tennessee, Missouri and Kentucky, Illinois and Iowa, Wisconsin and Minnesota, and then up through Minnesota.
        + The Missouri River - Is connected to the Mississippi River but veres off in Missouri then runs between Nebraska and Iowa, through South Dakota, through North Dakota, and then through Montana.
        + The Columbia River - Runs from the Pacific Ocean in between Washington and Oregon, then through Washington and enters Canada.
        + The Colorado River - Runs from Mexico in between California, Arizona, and Nevada, then runs through the top of Arizona, through Utah, and then through Colorado.
        + The Rio Grande - Runs in between Texas and the Mexico border, then through New Mexico, and flows into Colorado.
        + The Hudson River - Runs from the Atlantic Ocean into New York.
        + The Yukon River - Runs through Alaska and into Canada.

## Step 5)

The guide will also explain where the Great Lakes are located -

* + - * + Lake Superior - Located at the top of Michigan.
        + Lake Huron - Connected to Lake Superior and Lake Michigan and is located on the eastside of Michigan.
        + Lake Michigan - Splits Michigan in half and is located on the westside of Michigan.
        + Lake Erie - Located on the border of Ohio, Pennsylvania, New York, and Canada.
        + Lake Ontario - Located on the border of New York and Canada.

## Questions on the major rivers and Great Lakes)

### Question 1)

What major river is closest to Lake Superior?

#### Answer 1)

The river closest to Lake Superior is the Mississippi River.

### Question 2)

Which of the Great Lakes is closest to the Hudson River?

### Answer 2)

The lake closest to the Hudson River is Lake Ontario.

### Question 3)

What two major rivers in the United States flow through Canada?

#### Answer 3)

The two rivers are the Yukon River in Alaska and the Columbia River in Washington.

# Bordering countries

(sighted guide needed)

## Objective)

Students will be able to identify the neighboring countries to the United States and where the countries are located including Canada, the United States (Alaska and Hawaii), and Mexico.

## Step 1)

The guide will need to take out the learning object and the 4 country pieces (Alaska, Canada, the major part of the United States, and Mexico).

## Step 2)

The guide will need to place the object and pieces in front of students and direct them to the appropriate section (bottom right corner).

## Step 3)

The students can feel the pieces and try to place the countries in their correct spots.

## Step 4)

The guide will then explain what each piece is and where it should go -

* + - * + Smaller piece at the top left of the map - Alaska which is part of the United States.
        + Bigger piece right next to Alaska - Canada, a neighboring country to the United States.
        + Piece below Canada - the United States.
        + Piece below the United States - Mexico, another neighboring country to the United States.
        + Piece at the bottom left of the map - Hawaii which is part of the United States.
        + All of these countries are a part of the North America continent

## Questions on the bordering countries)

### Question 1)

Which is the longest border in the United States, the Canada and United States border or the Mexico and United States Border?

#### Answer 1)

The Canada and United States border is the longest.

### Question 2)

Which bordering country to the United States is smaller?

#### Answer 2)

The smaller bordering country is Mexico.

### Question 3)

Alaska has a really cold climate. What bordering country to Alaska also has a really cold climate?

#### Answer 3)

The bordering country that has a cold climate is Canada.

# Questions on entire lesson)

## Objective of final questions)

These questions will help students connect all their knowledge on the major mountain ranges, time zones, rivers, the Great Lakes, and the bordering countries.

### Question 1)

On the west coast, what is the nearest mountain range? What is the time zone? What are the two closest rivers?

#### Answer 1)

The nearest mountain range is the Sierra Nevada, the time zone is Pacific Time, and the two closest rivers are the Columbia River and the Colorado River.

### Question 2)

If I would like to hike up a mountain range in the Mountain Time time zone, which mountain range should I go to?

#### Answer 2)

I would want to hike up the Rocky Mountains.

### Question 3)

What are the names of the largest connected rivers in the United States and what are the two time zones that they flow through?

#### Answer 3)

The two connected rivers are the Mississippi River and the Missouri River. They flow through the Central Time and Mountain Time time zones.

### Question 4)

What are the two rivers that flow through the United States, but also flow through Mexico?

#### Answer 4)

The Rio Grande and the Colorado River both flow through the United States and Mexico.

### Question 5)

What river and two time zones does the Appalachian Mountain range cross through?

#### Answer 5)

The Appalachian Mountains cross through the Central Time and Eastern Time time zones. The Appalachian Mountain range also crosses the Hudson River.

# Key for the Braille and sighted guide)

## Topography)

* + - * + The topography map shows the three major mountain ranges in the United States.

Mountain range on the west coast / in California - Sierra Nevada (Braille = SN)

Mountain range almost parallel to the Sierra Nevada - the Rocky Mountains (Braille = RM)

Mountain range along east coast - Appalachian Mountains (Braille = APM)

## Time zones)

* + - * + Piece on west coast - Pacific Time (Braille = PT 3pm)
        + Piece next to Pacific Time - Mountain Time (Braille = MT 4 pm)
        + Piece next to Mountain Time - Central Time (Braille = CT 5pm)
        + Piece on the east coast - Eastern Time (Braille = ET 6pm)
        + Alaska - Alaska Time (Braille = AT 2pm)
        + Hawaii - Hawaii-Aleutian Time (Braille = H-AT 1pm)

## Rivers and the Great Lakes)

### Rivers)

Alaska - the Yukon River (Braille = YR)

Upper left corner of the United States, in Washington - the Columbia River (Braille = CR)

Bottom left corner of the United States, flows between California and Arizona - the Colorado River (Braille = COR)

Along the edge of the United States map and Texas - the Rio Grande (Braille = RG)

In the center of the United States - the Mississippi River runs up to Wisconsin (Braille = MSR) the Missouri River runs up to Montana (Braille = MOR)

New York - the Hudson River (Braille = HR)

### The Great Lakes)

The piece right above Michigan on the left - Lake Superior

The piece directly below Lake Superior - Lake Michigan

The piece to the right of Lake Michigan - Lake Huron

The piece below Lake Huron - Lake Erie

The piece to the right of and above Lake Erie - Lake Ontario

## Bordering Countries)

* + - * + Piece in the upper left of the map - Alaska (Braille = AK)
        + Piece next to Alaska - Canada (Braille = CAN)
        + Piece below Canada - the United States (Braille = US)
        + Piece below the United States - Mexico (Braille = MX)
        + Piece in the lower left of the map - Hawaii (Braille = HI)