

Name:

WHAT DO GEOGRAPHERS DO?

A geographer is a person who studies the Earth and its features. Geographers study all kinds of places. Some places include communities, states, and countries. Not everything a geographer does is about just land or water, but also how people impact those places. They study the physical and human characteristics on a geographic scale. Human geographers study how humans interact with the Earth and its features over time. Physical geographers study the different patterns of landforms, climates, vegetation, soil, and water. governments and human interaction can change the way a land and waterways look. Today many geographers use many tools and routines in their studies. A geographer looks at pictures, surveys, maps, and speaks with people to conduct their research on the area they are studying. Once they have done their research, they often create maps, graphs, or diagrams that show the geographic data they have collected. Geographers can also advise and assist governments in environmental studies.

What does	it mean to	be a geograp	her'?	

2. How are human and physical characteristics different?

3.	How do you think a geographer could help a local government?				
-					
-					
	How can a geographer use what they have studied? How can they esent their data to others? Highlight where you find this in the text.				
_					
-					
_					
-					
-					
	Oo you think that geographers are important and are needed? Why or my not?				
•					
_					
-					
=					
•					

WHERE IS THE LOCATION?

If someone asks you where a place is located, you need to know how to respond to them. Giving someone the location of a place or thing depends on how much information they would like to know. Location is where something is found. Something can be anything - from the table across the room to where Disney World is located. If someone wants to know the exact address of a place, they are asking for the absolute location. Disney World, for example, is located at 3111 World Drive, Orlando, FL, 32830 USA. You use absolute location when use phones and computers to get directions to a place. If you don't have to be as specific, you can use the relative location of a place. For example, the table is located across the room and to my left. Little Caesars is three blocks away on the right. Michigan is located east of New York. We use direction words such as north, south, east, and west to give the relative location of a place. While looking at a map or a globe, you can find the relative locations of other states and countries to Michigan. Next time you're traveling somewhere, ask yourself what your relative location to home is.

l.	What does location mean?		

2. What is the absolute location of your school?

3.	What is relative location and what words describe the relative location?
•	
	How are absolute location and relative location different? When is it portant to use one or the other?.
	If a neighbor asked you how to get to WGM from their house, would u use absolute location or relative location? Why?
•	

THE UNITED STATES OF AMERICA



Name My State is Where? Using a United States map and direction words, tell the relative location of Michigan from the following states. 1. Kentucky 2. California _____ 3. Rhode Island_____ 4. West Virginia ____ 5. Washington____ 6. New Hampshire____ 7. Illinois 8. South Carolina_____ 9. Iowa 10. Mississippi

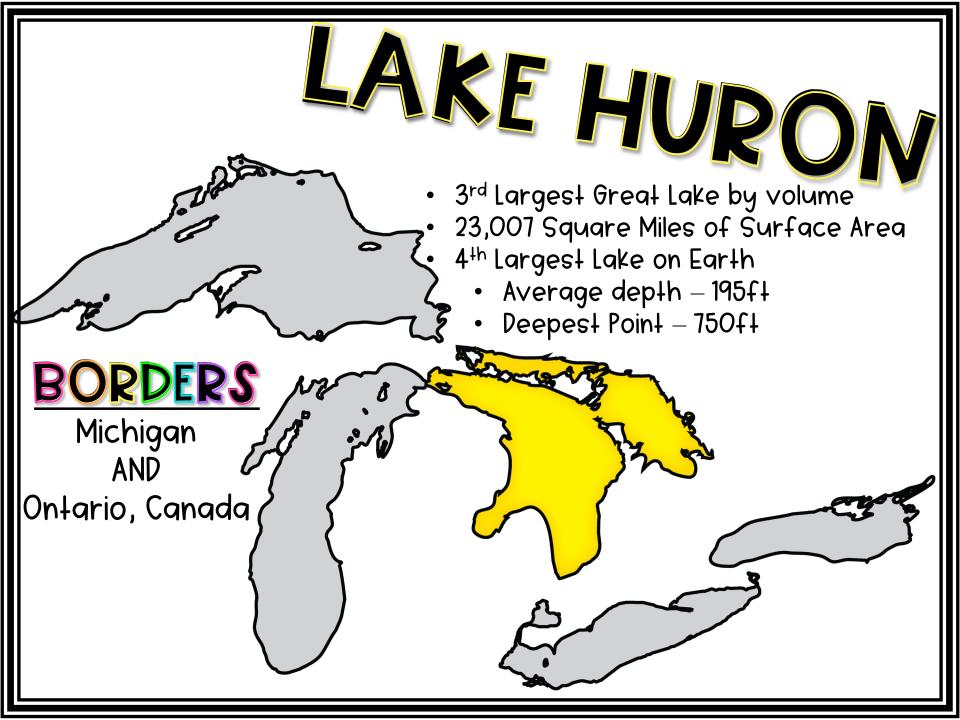
Name:

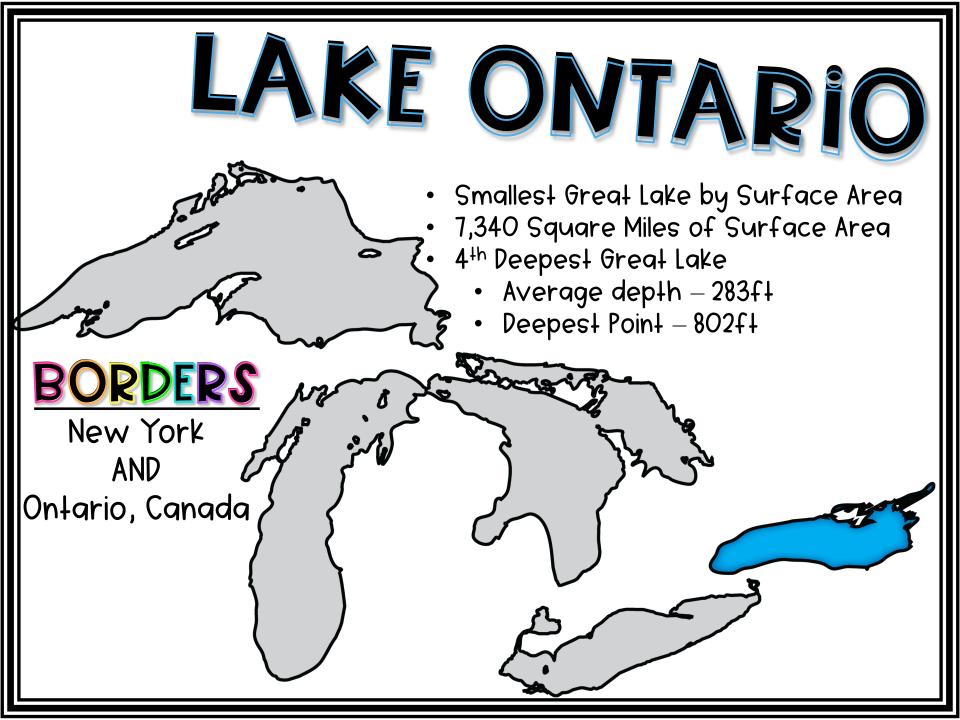
MICHIGAN LAKES & LANDFORMS

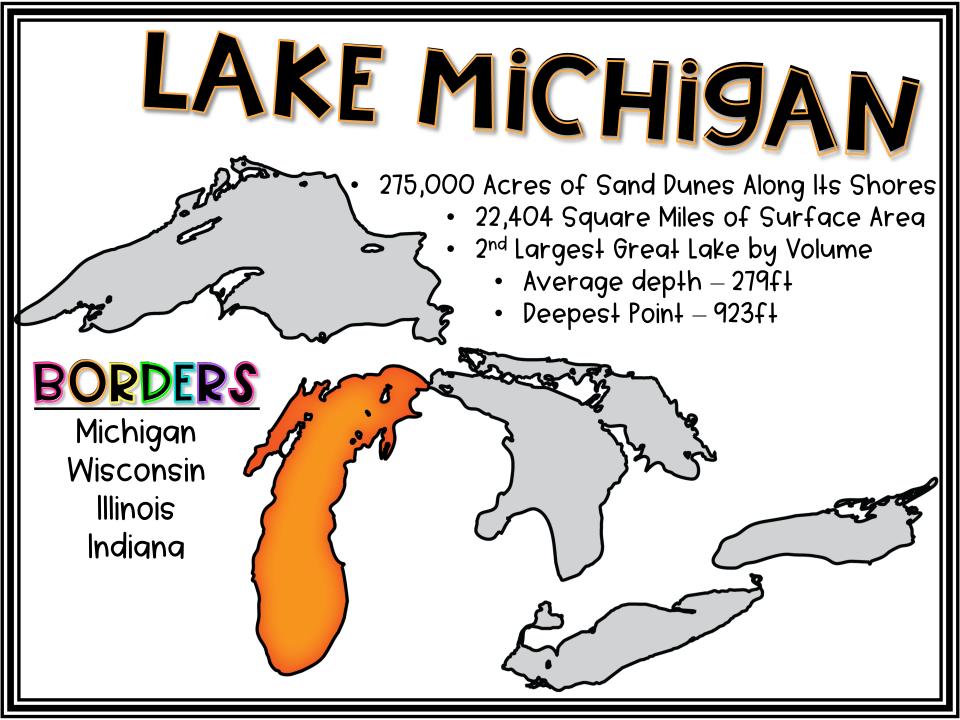
Michigan is a very unique state. Unlike many other states, Michigan is made up of two peninsula's. The Upper Peninsula and the Lower Peninsula. A peninsula is a landform that is surrounded by water on three sides. Michigan is surrounded by four of the great lakes - Lake Michigan, Lake Superior, Lake Huron, and Lake Erie. It is also bordered by Lake St. Clair, a smaller lake that is not part of the Great Lakes. The "thumb" of Michigan is also a small peninsula itself because it is surrounded by water on three sides. The Saginaw Bay is the area of water on the inside of the "thumb." A bay is a body of water that is blocked off by land that connects to a larger body of water. Michigan is also home to over 11,000 lakes and more than 300 named rivers. There are two mountain ranges in Michigan, the Porcupine Mountains and the Huron Mountains. The tallest mountain in the state is Arvon Mountain, which is part of the Huron Mountains in the Upper Peninsula. There are several sand dunes throughout the state, the most popular being Sleeping Bear Dunes which is located near Traverse City. Sand dunes are hills of sand that were <u>formed by winds usually near a beach or desert</u>

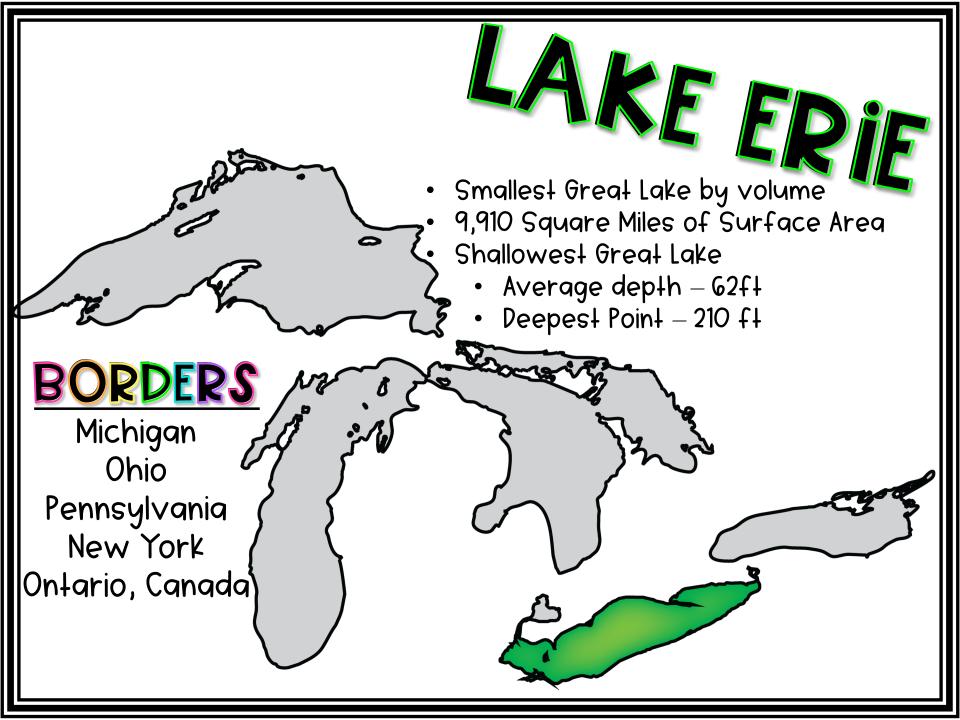
- I. What is a peninsula and what are the major peninsulas of Michigan?
- 2. Where is the tallest mountain in Michigan located? What is its name?

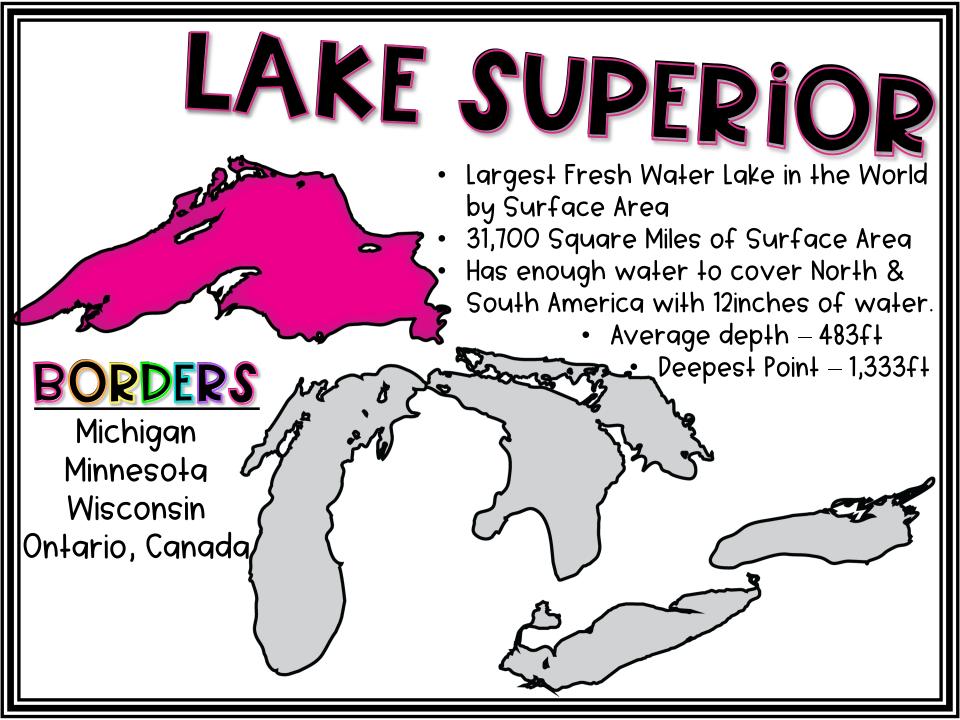
3.	Are all of the great lakes connected to Michigan? What lakes are?					
	How many lakes and rivers are in Michigan? Which body of water has pre?					
•						
-						
	What are the two Great Lakes that are closest to your school? Are ere any other bodies of water close by?					
•						
•						
•						











Name	
Label each Great Lake with their correct name. Color	the lakes blue and the land green.
The state of the s	

	Name Match the definitions, examples, and pictures in the correct row.						
		DEFINITION	EXAMPLE	PICTURE			
	PENINSULA						
	iSLAND						
))	MOUNTAIN RANGE						
	SAND DUNES						
)	BAY						

	- Mackinac Island - Isle Royale - Beaver Island	An area of land that is surrounded by water on all sides.
A mount, hill, or ridge of loose sand that is piled up by wind.		- Saginaw Bay - Keneenaw Bay - Grand Traverse Bay
	An area of land that is surrounded by water on 3 sides.	- Sleeping Bear Dunes - Silver Lake Dunes - Saugatuck Dunes
A body of water blocked off by land that connects to a large body of water.	Huron Mountain Range	
- Lower Peninsula - Upper Peninsula - Leelanau Peninsula	A line of mountains that are connected to each other.	

Name:			

CLIMATE & VEGETATION

Did you know that Michigan is the 2nd most popular state in the United States for growing Christmas trees? Michigan is home to many crops and forests that are used for goods, but some forests are also protected from being cut down. Forests cover more than 50 percent of the entire state of Michigan! Michigan is known for growing fruits like apples, blueberries and cherries. Traverse City is famous for its cherries! Michigan is also ranks 13th in the nation for growing corn. Michigan's climate has a large impact on the amount and types of vegetation that can be grown. Michigan experiences a temperate climate - that means that there is a wide range of temperatures throughout the year and is more likely experience seasonal changes than much warmer, tropical Due to Michigan experiencing the changes temperature and defined seasons, vegetation varies according to season. Very little tends to grow in the cold, winter months when compared to the warmer, sunnier months. Vegetation also covers 20% of our entire planet!

- I. What are two of Michigan's most popular food crops?
- 2. How much of Michigan is covered in forests?

Why do you think that Michigan ranks so high on Christmas tree growth?
How would you describe a temperate climate to someone who has ver heard of it before?
——————————————————————————————————————

N	an	ne
---	----	----

MICHIGAN'S CLIMATE

Michigan has a temperate climate — that means that the seasons are well defined and are experienced at different points in the year. In temperate climates, there are wider temperature ranges throughout the year.

SPRING	SUMMER	FALL	WINTER
<u>Write About It</u>	Write About It	<u>Write About It</u>	<u>Write About It</u>
<u>Draw It</u>	<u>Draw It</u>	<u>Draw It</u>	<u>Draw It</u>

MICHIGAN HUMAN CHARACTERISTICS

All human characteristics are all things on Earth that were made by people. Michigan is filled with incredible and unique human characteristics. The Mackinac Bridge that connects the Upper and Lower Peninsula opened in 1957 and is 26,372 feet long - that is almost 5 miles! The Mackinac Bridge is the 20th longest bridge in the world. The Soo Locks in Sault Ste. Marie allow ships to pass from Lake Superior to the lower Great Lakes. They were first built in 1855 and have allowed ships to move from lake to lake carrying goods to other places. Michigan has over 3,000 miles of shoreline that are home to 247 lighthouses to guide and aid ships along dangerous waterways. The oldest lighthouse in Michigan, Fort Gratiot Lighthouse, was first built in 1825 where Lake Huron and the St. Clair River meet. Did you know Detroit is known as the Motor City? That is because Detroit has been known as the heart of the automotive industry since the 1920's. It was in the 1950's, when Detroit had over 265,000 automotive jobs, that it became widely known as the Motor City.

 .	What are human characteristics?

2. Where is the oldest lighthouse in Michigan located?

3.	Where are the Soo Locks located and what do they do?			
	Why is Detroit known as the Motor City? When did this nickname become pular?			
	What are 3 other popular human characteristics in Michigan that you ow of?			

MICHIGAN NATURAL RESOURCES

Geographers study places to find out ways that people have interacted with the environment around them. When people interact with their environment, they are using the natural resources that are available. Natural resources are things that are found in nature that can be used by people. Michigan is filled with many great natural resources that are used for a variety of things that are sold and used for goods and services. Michigan is surrounded by four of the great lakes, but also includes over 11,000 lakes and rivers that are used for shipping goods on boats, fishing, and for transportation. There are over 19.3 million acres of forests in Michigan. The trees in the forests are used for lumber that can be used to build homes, furniture, and much more. Michigan is also home to the largest amount of natural gas underground storage wells in the entire country! Natural gas is used to heat many homes, stoves, and water heaters. Many minerals can be found in our state including copper, iron ore, and limestone. These minerals are used in most buildings and structures in some way.

l.	what is a natural resource?		
		·	·

2. What natural resources are found in Michigan?

3.	Why are the Great Lakes an important natural resource for Michigan?
	Do you think that Michigan forests should be cut down so the wood can used for lumber? Why or why not?
5. wi	What other natural resources are in Michigan and how can they be used th goods and services?

	Name	Mich Natural	igdh' Resourc	S
		How We Use It	Positive Consequences	Negative Consequences
* *	SOIL			
*	TREES			
×	MINERALS			
*	WATER			
	GAS/OIL			

Name:

HUMAN & ENVIRONMENT INTERACTION

In order to understand the impact that people have on the environment, geographers study the ways that people use natural resources, where they decide to live, and how they adjust to the climate they live in. In Michigan, people have to build homes and buildings that can handle our temperate climate. Many cities are also located near waterways. People can use waterways as a method of transportation for goods and services. However, when people interact with the environment, there are always positive and consequences. For example, there have been many factories in Michigan that were once used to produce goods that people need. Those goods are the positive consequences of that When the factory closed and the building abandoned, that is known as a brownfield. Sometimes these brownfields are left with toxic chemicals and are untouched until the building collapses. Brownfields, toxic waste, and air pollution are all negative consequences of human and environmental interaction.

I. Why do people settle near waterways?

2. What do geographers do to understand human impact on the environment?

3.	What are brownfields and how do they impact the environment?			
	Greenhouse gases are caused by carbon dioxide that is often found in llution. These gases can make the earth warmer. Is that good or bad?			
	What do you think people can do to decrease the negative consequences at humans have on the environment?			

Name:

MOVEMENT IN MICHIGAN

Geographers often ask how some places are connected to other places. To solve those questions, geographers will study how people, goods, and ideas move. The way people, goods, and ideas move within geography is known as movement. Goods are brought to, taken out of, and moved around Michigan on trains, planes, cars, trucks, and even ships. Large cities where there are many roads, railroads, and airports are known as hubs. The largest hubs in Michigan are Detroit, in the south east, and Grand Rapids, in the south west part of the state. People move around the state for both work and enjoyment, but people also come to Michigan for vacation, family, or business. Ideas also move from person to person through computers, television, radio, mail, signs, and much more! There are both positive and negative consequences to movement. Movement allows people to have different experiences, receive different goods from other places, and learn new things. However, movement can also lead to pollution, and people leaving Michigan to move to another place.

I. What is movement?

2. What are Michigan's largest hubs and where are the located within the state?

3.	How do ideas experience movement? What kind of ideas could they be?
	What are at least four reasons that people would move from one place another in Michigan?
	What are some positive and negative consequences to movement within e state of Michigan?

Moving in Michigan

Why do people move in Michigan?

-To travel

- To be with family

-To have a nice life

- lo get a new job

Why do goods move in Michigan?

-Not all foods grow in Michigan

-Different things -By people nere

are made in moving around - Things grown in

-TV, radio, Michigan can be

internet, Sold in other

newspapers, etc. places.

Why do people move out of Michigan?

-Be closer to family

-Because they lost their job

lo live in nicer weather

-To have a nice life.

Why do goods move out of Michigan?

How do ideas move in a out of Michigans

So different places can have things that are made

Move in Michigan?	n Michigan?
Why DO GOODS Move in Michigan?	w Are Ideas Why Do Goods Idea In/Out of Move Out of Michigan?
	lichigan?

|--|

REGIONS & MICHIGAN

Regions are areas that have at least one characteristics that makes it different from other areas. The land may be flat instead of having tall mountains or food may grow in an area where there are dry desserts in other areas. Regions can come in all shapes and sizes. The state of Michigan is part of several different regions. part of the Midwest region of the United States. The Midwest is mainly flat land that has fertile soil that is good for farming. The Midwest is often called the "Breadbasket" of the United States because a lot of crops like corn and wheat are grown there. Michigan is also a part of the Great Lakes region. This region contains all states that border the Great Lakes, but also the province of Ontario, Canada. The state of Michigan itself also can be divided into several regions. The Upper Peninsula and Lower Peninsula can be a region, the Central Lowland and Super Upland are also regions. Lowland contains all of the Lower Peninsula and the eastern half of the Upper Peninsula. This region is mainly flat with very few hills. The west part of the Upper Peninsula is the Superior Upload region. This region has lots of natural resources, is very rocky, and is home to the Huron and Porcupine Mountains.

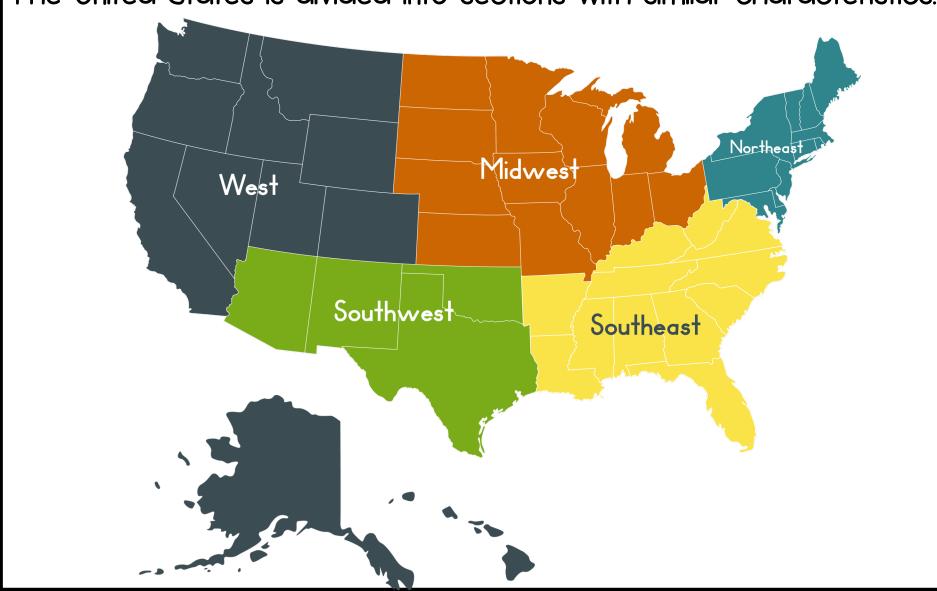
l. What is a region?

2. What regions is Michigan a part of?

Why is the Midwest known as the "Breadbasket" of the United States?		
What is the Great Lakes region and what states or provinces are part it?		
——————————————————————————————————————		

REGIONS OF THE UNITED STATES

The United States is divided into sections with similar characteristics.



MIDUEST REGION



GREAT LAKES REGION



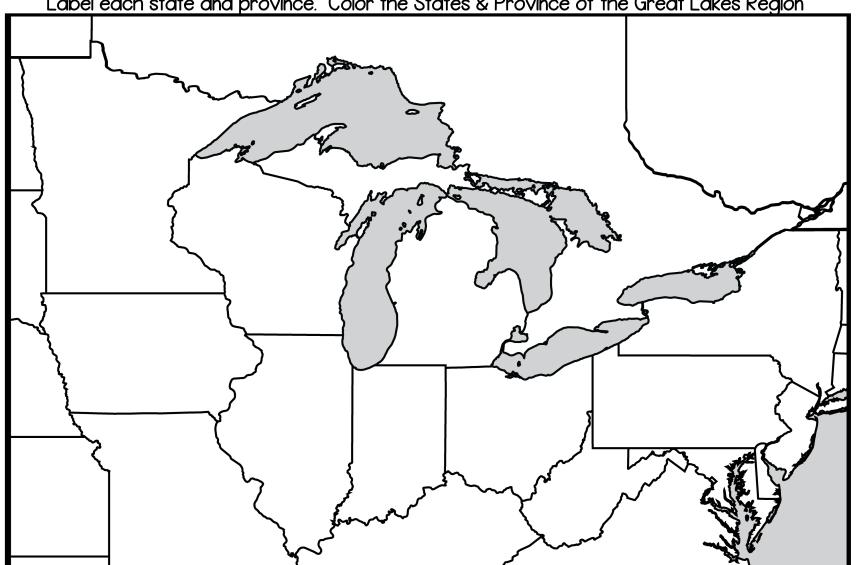
GREAT LAKES REGION



NAME

GREAT LAKES REGION

Label each state and province. Color the States & Province of the Great Lakes Region



MICHIGAN GEOGRAPHY ots will create a poster using provided images to Paragraphy and paragraphy

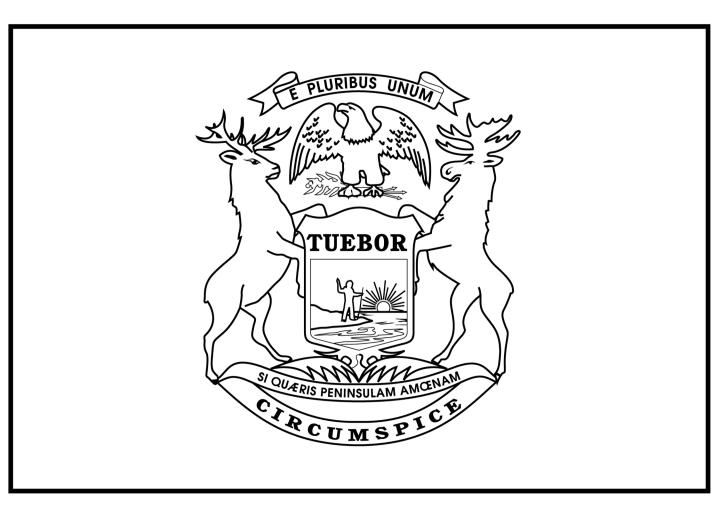
Students will create a poster using provided images to create and present the information they have learned about the geography of Michigan in this unit.

Items students must present on their poster:

- Where is Michigan located? (10 points)
- What region of the United States does Michigan belong in? (10 points)
- How can Michigan be divided into regions? (10 points)
- What are some important natural characteristics of Michigan? (10 points)
- What are some important human characteristics of Michigan? (10 points)
- What are some important natural resources of Michigan? (10 points)
- How have people changed the environment of Michigan? (10 points)
- How have people adapted to the environment in Michigan? (10 points)
- What goods move in and out of Michigan and why? (10 points)
- Design & creativity (10 points)







MICHIGAN GEOGRAPHY project

Michigan location	/10
US Region	/10
Michigan Regions	/10
Natural Characteristics	/10
Human Characteristics	/10
Natural Resources	/10
Environmental Change	/10
Environmental Adaptation	/10
Goods Moving In/Out	/10
Design/Creativity	/10
TOTAL	/100
NoteS:	

MICHIGAN GEOGRAPHY project

Name	
Michigan location	/10
US Region	/10
Michigan Regions	/10
Natural Characteristics	/10
Human Characteristics	/10
Natural Resources	/10
Environmental Change	/10
Environmental Adaptation	/10
Goods Moving In/Out	/10
Design/Creativity	/10
TOTAL	/100
NoteS:	