Let's Begin Our Study of World Geography!

What is Geography?

*Geography is the study of our earth; our planet; our home.

OR

*Anything that can be mapped!

*Geography mixes up the physical and human aspects of our world into one field of study.

*Geography shows the relationship between people and the environment.

What is a geographer?

 Someone who analyzes the Earth from many points of view.



The Five Themes of Geography There are five ways to look at the earth When geographers work, they are guided by two basic questions: **1)** Where are things located? 2) Why are they there?

> To find these answers, geographers use five themes to organize information

Things that geographers study:

oceans
plant life
landforms
people
how the Earth and its people affect each other

The Five Themes:

 Location – Geographers begin to study a place by finding where it is, or its location.

 Place – Geographers study the physical and human features of a location.

3) Human-Environment Interaction – Geographers study how people affect or shape physical characteristics of their natural surroundings and how does their surroundings (environment) affect them? 4) Movement – Helps explain how people, goods, and ideas get from one place to another.

 Regions – Geographers compare the climate, land, population, or history of one place to another.

Location

- There are two ways to think about location:
 - absolute location describes the place's exact position on the Earth.
 relative location – explains where a place is by describing places near it.

Place

This includes a location's physical and human features.

 To describe physical features, you might say that the climate is hot or cold or that the land is hilly.

To describe human features, you might discuss how many people live there, what types of work they do, or what they do for fun.

Human-Environment Interaction

How do people adjust to and change their environment? How does the environment adjust to and change the people?
Geographers also use interaction to study the consequences of people's actions.

Movement

Explains how people, goods, and ideas move from one place to another.
Helps geographers understand cultural changes.

Regions

A region has a unifying characteristic, like climate, land, population, or history.
On maps, geographers use color and shape or special symbols to show regions.

The Geographer's Tools Globes and Maps: –As people explored the Earth, they collected information about it. Mapmakers wanted to present this information correctly. -The best way was to put it on a globe, a round ball that represented the Earth.

 Because globes are not practical or easy to use to carry, flat maps were invented.

 However, the earth is round and a map is flat.

 Cartographers (or Mapmakers) had to find ways to make maps accurate.

How Latitude and Longitude Form the Global Grid



The Hemispheres



Globes and Maps

 The most accurate way to present information on the islands, continents, and bodies of water of the world is to put it all on a globe, a round ball like the Earth itself.

The only difference between a globe and the Earth itself is the scale, or size, represented on the globe. Globes have a disadvantage: They cannot be complete enough to be useful and at the same time be small enough to be convenient.

Therefore, people invented flat maps.

Maps try to show the Earth, which is round, on a flat surface.
This causes distortion, or a change in accuracy of the shapes and distances of places.
It is impossible to show the Earth on a flat

surface without some distortion.

Getting It All On the Map



 In 1569, a geographer named Gerardus Mercator created a flat map to help sailors navigate long journeys across the globe. The Mercator projection, or method of putting a map of the Earth onto a flat piece of paper, is used by nearly all deep-sea navigators. The Mercator projection is a conformal map, meaning that it shows correct shapes, but not true distances or sizes. There are many types of other projections of the globe.

The World: Three Projections



There are many ways to show a globe on a flat map. The interrupted projection map, on the left, shows real sizes and shapes of continents. The equal area map , below left, shows size accurately. The Peters projection, below, shows land and oceans areas and correct directions accurately





Robinson makes the world "look right". Better balance of size and shape of high-latitude lands. All points have some distortion but it is very low along the equator. Distortion greatest near the poles. Not an equal-area projection.

The Parts of a Map

Compass Rose

Scale



A model of a compass. It tells the cardinal directions, which are north, south, east, and west.

How Topographic Maps Work	
1	Scale 1:24,000 Contour Interval 10 Feet
	0.5 0 Example Scale

The scale on a map tells you the relative distance on the map to the real world. For example, a map's scale may tell you that one inch on the map equals one mile in the real world.

MAP KEY	
🛊 = Park	see Railroad
C = Gas Station	= Road
= Campground	

 The key, or legend, on a map explains what the symbols on a map represent, such as triangles representing trees.

Grids

Key

Some maps use a grid of parallels and meridians. On a map of a small area, letters and numbers are often used to help you find your location.

