

The Geographer's Tools



ONLY WRITE WHAT IS UNDERLINED

The Geographer's Tools...

 Tools include maps, globes, and data that can be displayed in a variety of ways

- Globe: 3-dimensional representation of Earth
- Map: 2-dimensional representation of Earth







Maps vs. Globes



What are the Pros and Cons of each?

Maps vs. Globes: Pros and Cons

Maps:

Pros:

- Transportable (carry easily)
- Can be drawn to any scale

Cons:

- Doesn't show details
- Can be distorted

Globes:

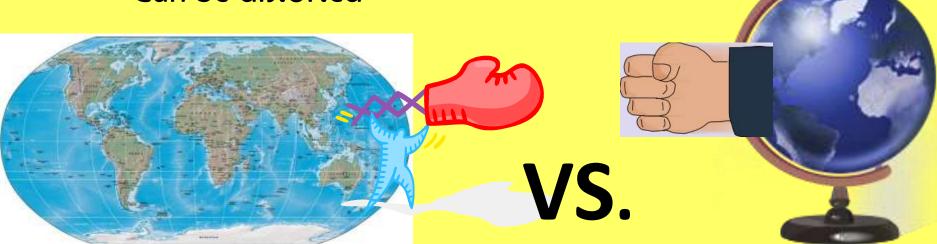
Pros:

- Small model of Earth
- Info. is where it should be

Cons:

- Not Transportable
- Can only see ½ of Earth at a





Political Mc

Shows bounc of countries, and lo major citi

physical features such as river: mountains, deserts, etc.

symbols, auts, or times to help y
see patterns related to a
specific idea.

The size of each country is drawn in proportion to the data

Eng Rol L-Not Stratched

arrows.

Y-DNA Human Migration (Haplogroups)

is usuany

Types of Maps

Physical Maps -

Shows landforms and physical features such as rivers, mountains, deserts, etc.

Cartograms -

Geographers present information about a country based on a set of data other than land area.

The size of each country is drawn in proportion to the data

Qualitative Maps -

Uses colors,
symbols, dots, or lines to help you
see patterns related to a
specific idea.

Flow-line maps -

Illustrate movement
of people, goods, ideas, animals,
or even glaciers → information
is usually shown in a series of arrows.

A Living Planet:

The Earth Inside and Out





The Solar System

 The "home address" of earth is the third planet in the solar system of the sun.

93 million miles away from the sun...that's

faaaaaarrrrrr!!!!



The Structure of the Earth

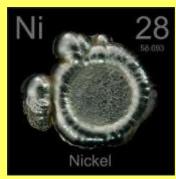
• Inside:

 The core is the center of the earth and is made up of iron and nickel.









Surrounding the core you have the...

- Mantle: surrounds the core, most of earth's mass
- Magma: molten rock which forms in the mantle and rises through the crust
- <u>Crust</u>: thin layer of rock at the earth's surface

The Structure of the Earth



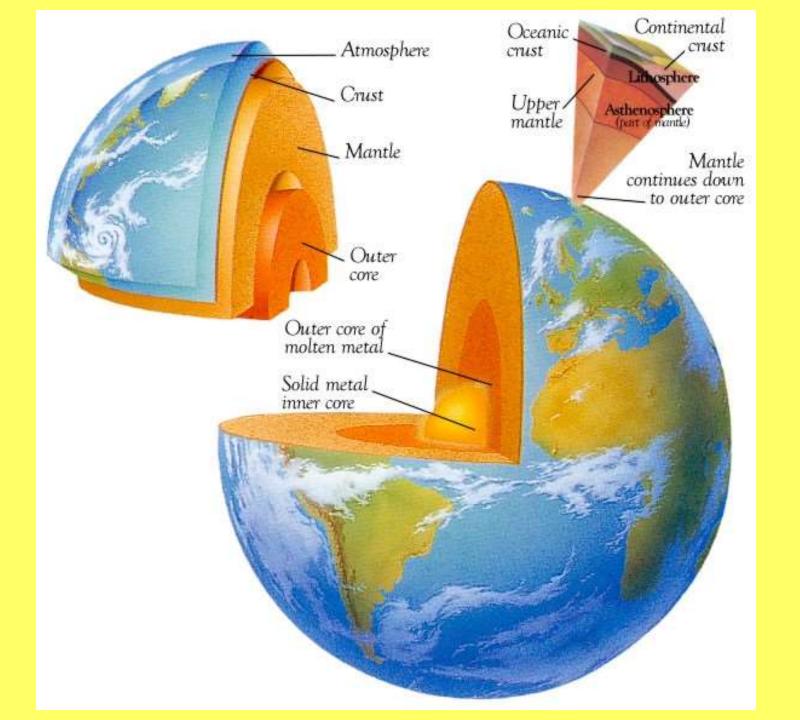
On and Above:

- Atmosphere: layer of GASES surrounding the earth, contains oxygen
- <u>Lithosphere</u>: <u>SOLID SURFACE</u> of the earth, includes crust and uppermost mantle, as well as the seafloor and continents (What are the 7 continents?)

– Hydrosphere: WATER ELEMENTS on earth

All of these spheres form the BIOSPHERE, which is where plants and







Bodies of Water and Landforms

Main ideas...

Water covers about ¾'s of the earth's surface

 The earth's surface displays a variety of landforms

PLACE Iguaçu Falls at the Argentina-Brazil border has 275 separate waterfalls varying between 200 and 269 feet high. It is nearly three times wider than Niagara Falls in North America.





 Without saltwater and freshwater, life on this planet would be impossible. Why?



- Oceans and Seas
 - Ocean: interconnected body of salt water, covers 71% of planet
 - -Name the 4 oceans...

Which do you think is the largest?

PACIFIC OCEAN!



Lakes, Rivers, Streams

- Lakes
 - Lakes hold 95% of earth's freshwater supply

Largest freshwater lake is Lake Baikal in Russia



Largest saltwater lake is the Caspian Sea in Western Asia



Longest River The Nile



Most Water The Amazon

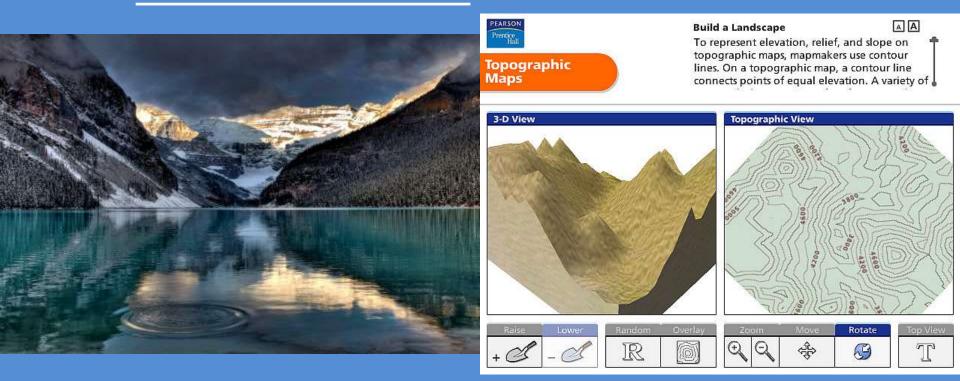


Continental Landforms

 Types of landform are on page 34-35 in your book, open to it!



- Topography: combination of the surface shape and composition of the landforms and their distribution in a region.
 - A <u>Topographic map shows a landform's</u>
 vertical dimensions



Oceanic Landforms

 The earth's surface from the edge of a continent to the deep part of the ocean is called the continental shelf.

The ocean floor has ridges, valleys, canyons, and plains ...just like above the ocean!

