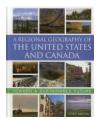
Regions and Ecoregions Chapter 1



Exams

- Beginning of chapters
 - Chapter highlights
 - Terms
 - Notes and reading of text
 - Discussion questions
 - Videos

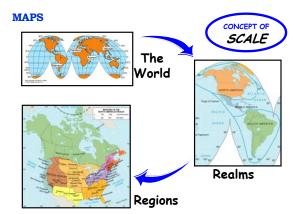
Elements of Geography

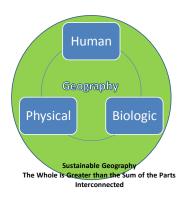


The Five Themes of Geography	
J	
LOCATION	
PLACE	
HUMAN/ENVIRONMENT INTERACTION	
MOVEMENT	
REGIONS	
Theme 1 Location	
Absolute Location Latitude	
2000,000	
➤Angle North or South of the Equator ➤Equator is exactly between the two fixed points of the North and	
the South Pole. >Latitude goes from 0°-90° in each hemisphere	
>Latitude are East-West lines knows as parallels	
70.7% 70.7% 60.7%	
20 N	
Where is 20°S?	
43	
Absolute Location-Longitude	
-	
>Lines that run North South and are	
known as Meridians ≻0º is known as the Prime Meridian	
and runs through Greenwich, England ≻Goes from 0°-180° East and West.	
Separate Separate	
Where is 40° E?	
(b)	

Longitude and Latitude	
➤ Specific location determined by longitude and latitude reading. ➤Coordinate ➤Global Grid	
Where is 20°N40°E?	
Question-Relative Location	
Interaction between and among places. How places are connected.	
THEME 2: PLACE	
 Physical characteristics Animal life,rivers,climate,mountains. 	
 Cultural characteristics Architecture, patterns of livelihood,land use, languages,religious and political ideologies. 	

	THEME 3: HUMAN/ENVIRONMENT	
_	INTERACTION - Question	
•	Positive and negative ways interact surroundings.	
	THEME 4: MOVEMENT Question	
	People interact with other people, places, and	
	things everyday. — Communication, exchange of products, exchange	
of information.		
	originate? How did it get here?	
	THEME 5: REGIONS	
•	Unifying characteristics-physical, cultural,	
	ethnic. How does this change over time.	
 Divide into manageable units of study. 		





Ecological Age

- Ecology-Interaction of living organisms and the physical world.
- · New way of thinking
- Shift of thinking from conquering nature
 A part of nature rather than apart.
- Living sustainable. What does that mean?
- Path of U.S. and Canada in relation to sustainability.

5



Anthropocentric= Human-centered

Americans are the most consuming nation and live well beyond their resource supply and do not respect limits. This is an example of living unsustainable.

Energy Consumption

5% of population that create 25% of greenhouse gases



17





Unintended Consequences Kingston, Tennessee, December 2008

Coal ash, a toxic byproduct of burning coal in a power plant is mixed with water to create slurry which is stored in unlined ponds.

Leaching into groundwater or dam burst

18

Coal Fly Ash

- 131 million tons by 460 plants stored in 1300 locations
- 50% stored in dams
- No federal regulations by EPA to control fly ash as hazardous material
- Contains arsenic, cadmium, chromium, and mercury.

Environment

External costs paid by the consumer

Economics

Single bottom Line?

Community

Choosing to operate for profit alone has resulted in unintended consequences, sometimes for the better, but usually negatively affecting the environment and social equity. These effects are called external costs.

Global Warming/Climate Change

External Costs Deforestation- Loss of biodiversity Soil Erosion

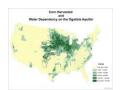
Costs to communities?





The relationship of regions, water, &crops.

Great Plains to be irrigated from the underlying Ogallala aquifer. Water used to irrigate humid weather crops far exceeds sustainable standards.





Ecosystem

- Interconnected geographic area
 - Living organisms (people, plants, animal, microorganisms)
 - Physical surroundings (soil, water, air)
 - Natural cycles (carbon, nitrogen)
- Scale
 - Small (small area in detail-a tree)
 - Large (Entire forest)

Ecoregion

- A relative large unit of land and water defined by influences of shared climate and geology, the main factors that determine distribution of plants and animals in the area.
- Subregion

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Subregions Black Hills



Boundaries and borders

• Political versus ecoregions





The Colorado River, along the California/Arizona border





Conclusions

• Geography- Ability to connect information about a place across many disciplines.

- Key to sustainable future
- U.S. and Canada lead world?
 - Consumption (Sustainable)
 - Growth (Ecological)
 - Progress (Cooperative)
- Paradigm shift of holistic systems