

Unit 1 Thinking Geographically



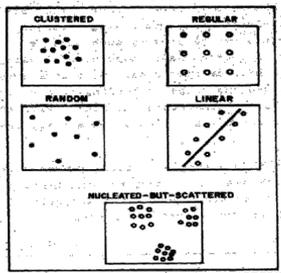
APHuG Exam Review

1.1 Introduction to Maps

I can identify maps and information on maps

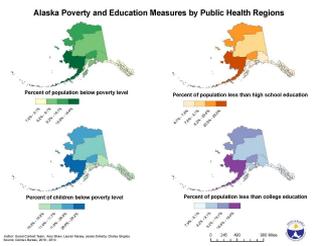


I can identify spatial patterns and relationships portrayed in maps

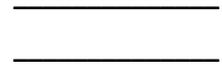


I can identify how map projections distort spatial relationships

Map projection examples are LOCATED IN YOUR GRAND REVIEW



Which is which?



- absolute and relative directions:
absolute direction: north, south, east, west
relative direction: "the middle east," "west coast," "deep south"
- absolute and relative distance:
absolute distance: cm, km, miles
relative distance: measured by time

Clustering
Dispersal
Elevation

FIG. 22: ILLUSTRATION OF SPATIAL PATTERNS

1.4 Spatial Concepts
inside outside near around under over
above up far together apart big
below down between small



I can define major geographic concepts that illustrate spatial relationships

- Absolute and relative locations

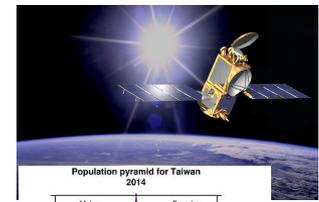
1.2 Geographic Data

I can identify different methods of geographic data collection

Two types of Thematic Maps

Qualitative	Quantitative
Show nominal data	Show numerical data
Shows distribution	Show variation from place-to-place
No quantities	Generalized numbers

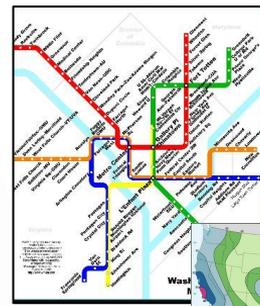
1.3 The Power of Geographic Data



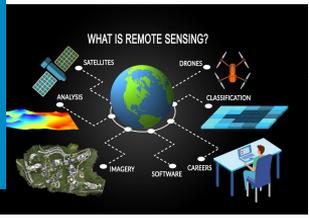
What do you think?



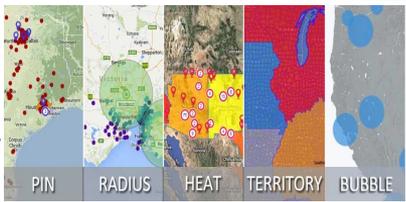
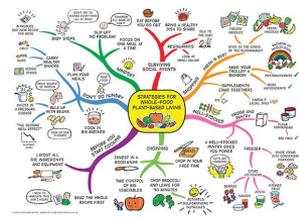
Qualitative or Quantitative?



PLACE



GIS vs Remote Sensing



Visual Mapping / Online Mapping

I can explain how these are used for decision making purposes by the following:

- _____
- _____
- _____

I can explain the geographical effects of decisions made using geographical information such as:

_____ & _____

Perception of Place



1.4 CONTINUED

Space-time compression:

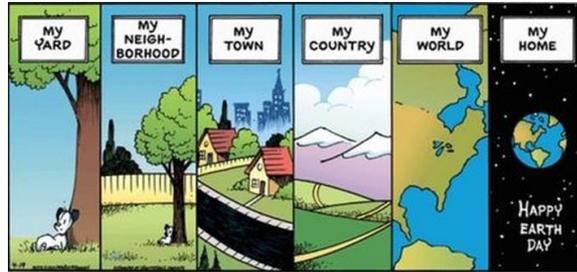
- The reduction in time it takes for something to reach another place
- Because of technology, connections have reduced distance (not literally in miles, but in space)



Distance decay



1.6 Scale of analysis

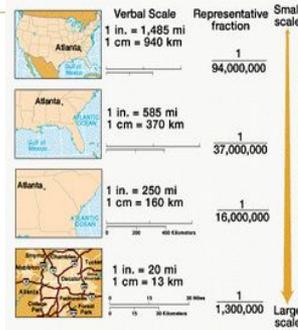


I can define scales of analysis used by geographers

- _____
- _____

Maps Scale

- Larger the area shown
 - = smaller scale
- Smaller the area shown
 - = larger scale



I can explain what scales of analysis reveal

- _____
- _____

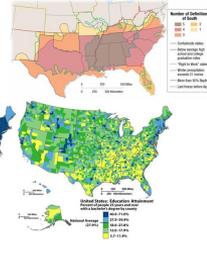
1.7 Regional Analysis

I can identify and explain the types of regions

- _____
- _____
- _____

Regional Analysis

- Formal regions
- Functional regions
- Perceptual regions



Petroleum Administration for Defense Districts



I can describe different ways that geographers define regions

- _____
- _____

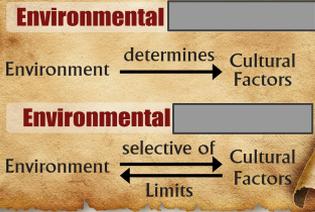
I can explain how geographers apply regional analysis at local, national, and global scales

Pneumatic Emergency Ventilator Market 2020: Global and Regional Analysis by Top Key Market Players, Key Regions, Product Segments, and Applications by 2026



1.5 Human Environment Interaction

I can explain theories about how humans interacted with natural environments



I can explain how major geographic concepts illustrate spatial relationships.



- _____
- _____
- _____



Unit 2 Population and Migration

Patterns and Processes



APHuG Exam Review

2.1 Population Distribution



I can identify the factors that influence the distribution of human populations at different scales.

2.2 Consequences of Population Distribution

social
political
economic



I can explain how population distribution and density affect society and the environment.

I can explain the factors that account for contemporary and historical trends in population growth and decline.

2.4 Population Dynamics

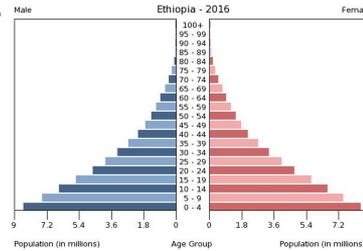


A population's growth and decline are based on



2.3 Population Composition

I can describe elements of population composition used by geographers.



MORE THAN MEETS THE EYE!

It isn't just a pyramid. It shows patterns of _____ structure and _____ ratio which vary across different _____ and may be mapped and analyzed at different _____. They look at population _____ and _____ to make predictions.

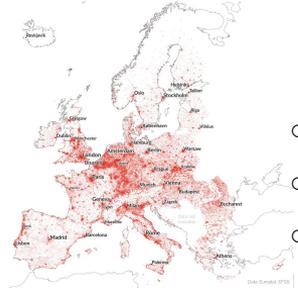
and _____.

Doubling Number	Population	Year	RNI %	Doubling Time (Years)
0	1	3,000,000 BP	0.0001	500,000
1	2	2,500,000 BP	0.0001	500,000
2	4	2,000,000 BP	0.0003	250,000
3	8	1,750,000 BP	0.0003	250,000
4	16	1,500,000 BP	0.0005	125,000
5	32	1,250,000 BP	0.0005	125,000
6	64	1,000,000 BP	0.0007	100,000
7	128	900,000 BP	0.0007	100,000
8	256	800,000 BP	0.0007	100,000
9	512	700,000 BP	0.0007	100,000
10	1,024	600,000 BP	0.0007	100,000
11	2,048	500,000 BP	0.0007	100,000
12	4,096	400,000 BP	0.0007	100,000
13	8,192	300,000 BP	0.0014	50,000
14	16,384	250,000 BP	0.0014	50,000
15	32,768	200,000 BP	0.0014	50,000
16	65,536	150,000 BP	0.0014	50,000
17	131,072	100,000 BP	0.0014	50,000
18	262,144	50,000 BP	0.0028	25,000
19	524,288	25,000 BP	0.014	5,000
20	1,048,576	20,000 BP	0.014	5,000
21	2,097,152	15,000 BP	0.028	2,500

Geographers use RNI (crude death rate - crude birth rate) and _____ to explain _____ and _____.

POPULATION DENSITY IN EUROPE

Areas with 250 people or more, per sq. km.

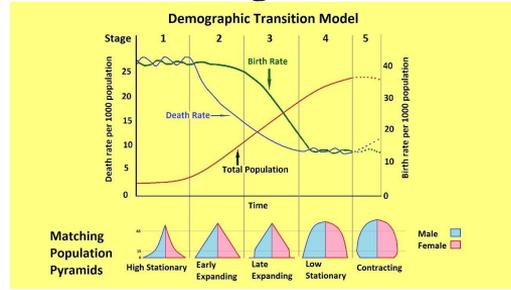


I can define methods geographers use to calculate population density

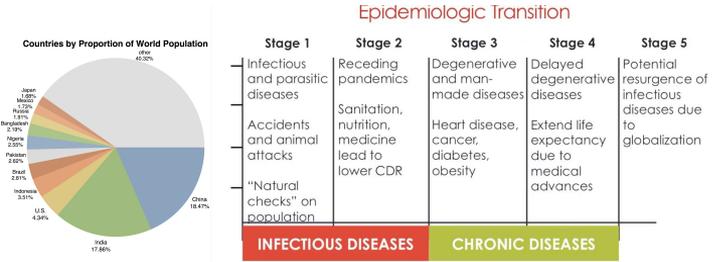
I can explain the differences between and the impact of methods used to calculate population density



2.5 The Demographic Transition Model

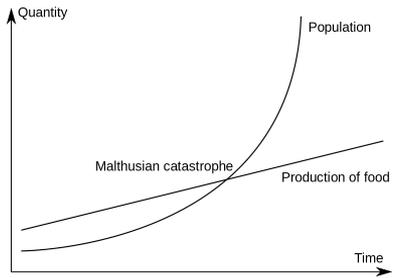


I can explain theories of population growth and decline.



2.6 Malthusian Theory

I can explain theories of population growth and decline used to analyze population change and its consequences.



I can explain the intent and effects of various long - and short-term population and immigration policies on population size and composition.

2.7 Population Policies

Save Japan

Tamil Antinatalism and Child Free

Raise a kid

Japanese people will become extinct in 1800 years

2.8 Women and Demographic Change

I can explain how the changing role of females has demographic consequences that have reduced fertility rates in most parts of the world.

I can explain how the changing social, economic, and political roles for females have influenced patterns of fertility, mortality, and migration

2.9 Aging Populations

I can explain the causes and consequences of an aging population.

What does this graphic show?

2.10 Causes of Migration

I can explain how different causal factors encourage migration.

Push Factors

- few services
- lack of job opportunities
- unhappy life
- poor transport links
- natural disasters
- wars
- shortage of food

Obstacles

Pull Factors

- access to services
- better job opportunities
- more entertainment facilities
- better transport links
- improved living conditions
- hope for a better way of life
- family links

Opportunities

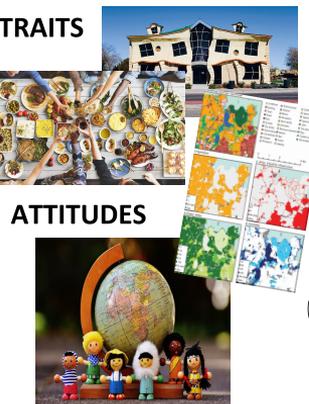
Unit 3 Cultural Patterns and Processes



APHuG Exam Review

3.1 Introduction to Culture

I can define the characteristics, attitudes, and traits that influence geographers when they study culture.



TRAITS

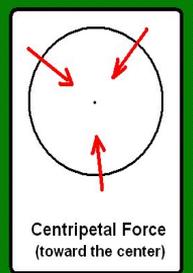
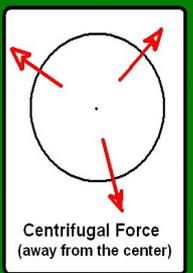
ATTITUDES

Culture is the shared _____

 _____ and _____
 _____ of a _____
 _____ society.



3.3 Cultural Patterns



3.2 Cultural Landscape

LANDSCAPE CHARACTERISTICS 101 National Park Service U.S. Department of Interior

Cultural landscapes are identified by two qualities: 1) "significance" or authenticity to a specific time period. Places that are cultural landscapes convey their integrity through historic character. Landscape characteristics are unique qualities used to evaluate and understand human influence and measure historic integrity.

SCENIC INTEGRITY

The thirteen landscape characteristics illustrated here have the potential to exist in any place, though not all are necessarily found everywhere. Cultural landscapes are extensible to present, retained historically and therefore a measure of authenticity.

INTANGIBLE

- Natural Systems & Features:** Material in nature that influenced historical development or use.
- Circulation:** Historical systems for human movement.
- Cluster Arrangements:** Historical patterns of aggregation in farms.
- Topography:** Historical human-made base of the ground plane.
- Vegetation:** Historical patterns of vertical planes, both native and introduced.
- Views & Vistas:** Historical range of vision, both broad and discrete.

TANGIBLE

- Special Organization:** The historical three-dimensional management of physical forms.
- Land Use:** Historical activities that influenced development and modification.
- Cultural Traditions:** Historical manifestation of collective cultural identity.
- Constructed Water Features:** Historical constructed forms to contain or convey water.
- Small-scale Features:** Discrete, historical elements that provide detail and diversity.

I can describe characteristics of cultural landscapes.



I can explain how landscape features & land/resource use reflect cultural beliefs & identities & help shape the use of space in a given society.



The cultural landscape features impact all of the following:



How does the hat above fit into diffusion?

3.4 Types of Diffusion

I can explain how patterns & landscapes of language, religion, ethnicity, & gender shape the global landscape.

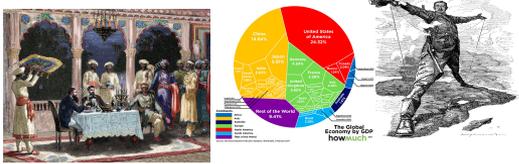
I can define the interaction of people through the types of diffusion that contribute to the spread of cultural practices.



Let's play Name that Diffusion!

3.5 Historical Causes of Diffusion

I can explain how historical processes impact current cultural patterns.



↑↑↑ These led to those ↓↓↓



3.8 Effects of Diffusion

I can explain how the process of diffusion results in changes to the cultural landscape.



? _____



? _____



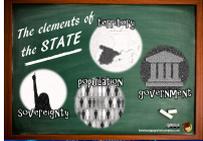
? _____



? _____

3.6 Contemporary Causes of Diffusion

I can explain how cultural ideas and practices are socially constructed and change through both small-scale and large-scale processes.



→

E
N
G
L
I
S
H



3.7 Diffusion of Religion

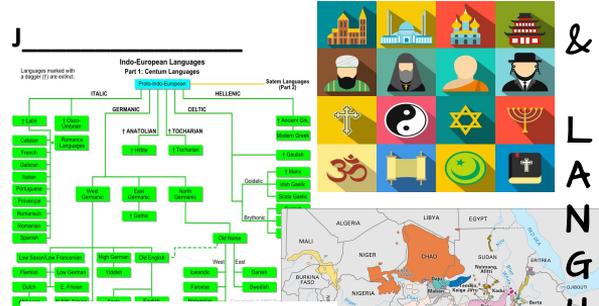
I can explain what factors led to the diffusion of universalizing and ethnic religions.



Universalizing religions spread thru expansion and relocation. They are:

Ethnic religions are found near the hearth or spread thru relocation. They are:

C _____
I _____
B _____
S _____
H _____
J _____



&
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A
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A
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E

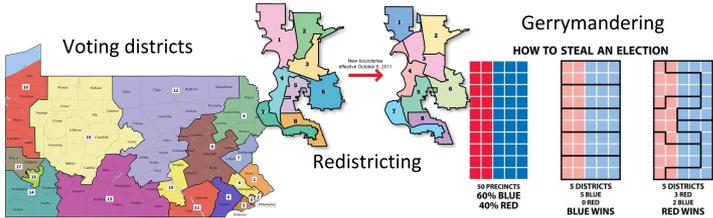


Unit 4 POLITICAL Patterns and Processes



APHuG Exam Review

4.6 Internal Boundaries



I can explain the nature and function of international and internal boundaries.

4.9 Challenges to Sovereignty

I can explain how political, economic, cultural, and technological changes challenge state sovereignty.



EXAMPLES OF EACH

DEVOLUTION

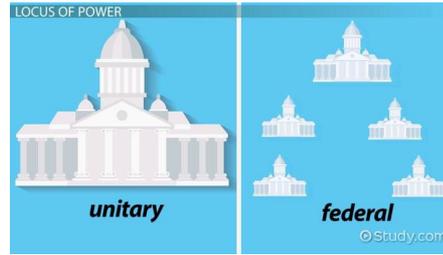


Who's Who of Supranational Organizations



4.7 Forms of Governance

I can define federal and unitary states.



_____ power vs. _____ power

4.8 Defining Devolutionary Factors

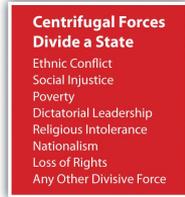
I can define factors that lead to the devolution of states.

- _____
- _____
- _____
- _____



4.10 Consequences of Centrifugal and Centripetal forces

I can explain how the concepts of centrifugal and centripetal forces apply at the state scale.



Unit 5 AGRICULTURE and RURAL LAND-USE Patterns and Processes



APHuG Exam Review

5.1 Introduction to Agriculture

I can explain the connection between physical geography and agricultural practices



Intensive

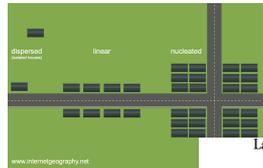
Extensive

- INCREASED FOOD PRODUCTION
- ALLOWED FARMERS TO DO FACTORY WORK IN URBAN AREAS
- INNOVATIONS
- CROP ROTATION
- FERTILIZERS
- TRACTORS

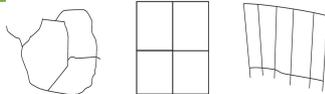


5.2 Settlement Patterns and Survey Methods

I can identify different rural settlement patterns and methods of surveying rural settlements.



Land Survey Patterns in North America



Metes and Bounds Township and Range Long lots

5.5 The Green Revolution



NEGATIVE AND POSITIVE

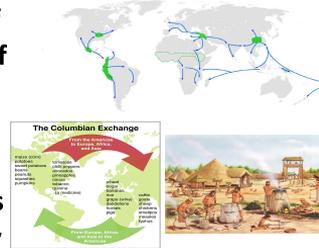


5.4 The Second Agricultural Revolution

I can explain the advances and impacts of the second agricultural revolution.

5.3 Agriculture Origins and Diffusion

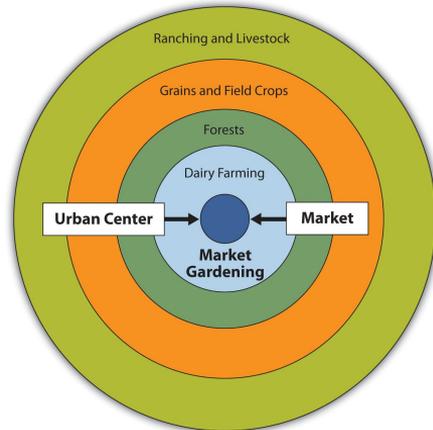
I can identify major centers of domestication of plants and animals and explain how plants & animals diffused globally



I can explain the consequences of the Green Revolution on food supply and the environment in the developing world.

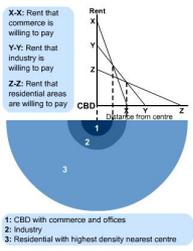


5.8 Von Thünen Model



I can describe how the von Thünen model is used to explain patterns of agricultural production at various scales.

5.6 Agricultural Production Regions

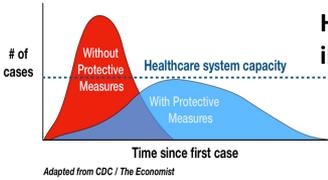


	INTENSIVE FARMING	EXTENSIVE FARMING
BASIS FOR COMPARISON		
Meaning	Intensive Farming refers to an agricultural system, wherein there is high level use of labor and capital, in comparison to the land area.	Extensive Farming is a farming technique, in which large farms are being cultivated, with relatively lower inputs, i.e. capital and labor.
Population	It is practiced in densely populated region.	It is practiced in moderately populated region.
Land holding	Small and expensive	Large and inexpensive
Farmland	Near to the market	Remotely located
Per hectare output	Large	Small

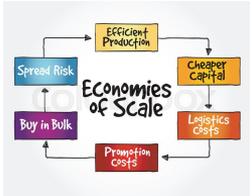
I can explain how economic forces influence agricultural practices.

5.7 Spatial Organization of Agriculture

I can explain how economic forces influence agricultural practices.



How does this graphic of COVID-19 illustrate carrying capacity?



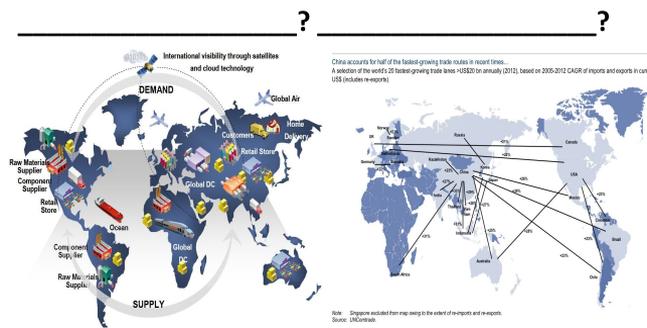
5.10 Consequences of Agricultural Practices

I can explain how agricultural practices have environmental and societal consequences and alter the landscape.



5.9 The Global System of Agriculture

I can explain the interdependence among regions of agricultural production and consumption.



UNCTAD State of commodity dependence 2014

A developing country is commodity dependent when the value of its export goods exceeds the value of its import goods over a three-year period.

2/3 developing countries are a commodity dependent

recorded an increase of their commodity dependence between 1975 and 2013

↑ **50%**

value of commodity exports from developing countries in 2013

\$3.2 trillions

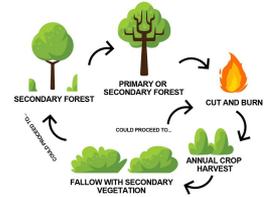
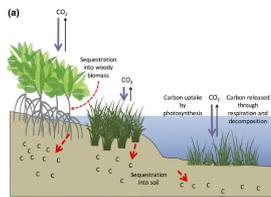
This value has increased since 1975 by **+570%**

The State of Commodity Dependence 2014 provides deeper and detailed country profiles on commodity dependence. It can be downloaded here: <http://unctad.org/commoditydependence>

Source: UNCTAD.



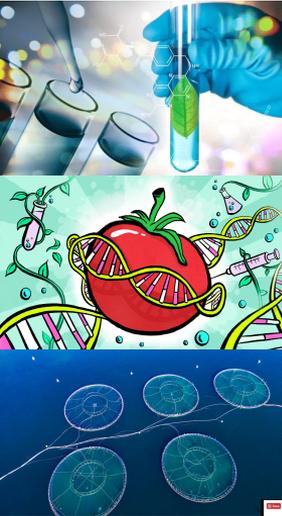
Environmental effects and agricultural practices



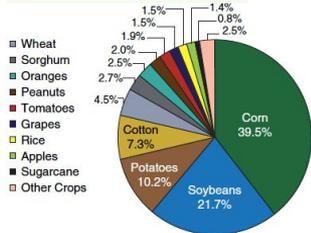
5.1 Challenges of Contemporary Agriculture

I can explain challenges and debates related to the changing nature of contemporary agriculture and food-production practices.

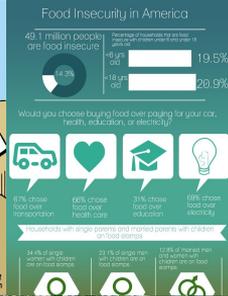
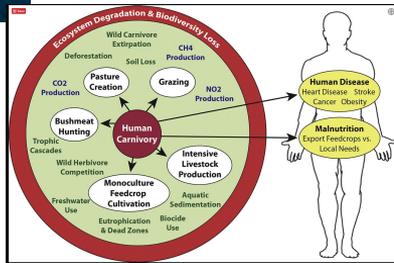
Innovations



Debates



Changing diets, the role of agricultural production, and economic purpose are...



PROVEN BENEFITS OF ORGANIC FARMING



1. _____ These locations all have economic effects on food-production practices
2. _____
3. _____
4. _____

5.12 Women in Agriculture



I can explain geographic variations in female roles in food production and consumption.



...societal effects of agricultural practices.