

REMINDE RS

- ❖ Extra Credit: "Think Geographically" Essays from any five of Chapters 4-12 - O R -
- ❖ The 3rd topic from required essay list plus 4 chapter essays.
 - Last day to submit is May 12 but it is best to do them as you read a chapter.

- Two **required** essays (10% of your grade) were due on April 17.
- ✓ Late penalty now applies (better than a zero!).
- ✓ **Must submit missing essays by May 12, 2020 to avoid a ZERO grade.**

➢ Extra credit may be submitted before the deadline.
➢ Don't wait for the due day to write them.

TEXTBOOK READING FOR PART III
 Selected parts of Chapters 6-12

FREE TUTORING IS AVAILABLE REMOTELY from the HC Skirball Learning Center

EXAM III - Final Exam
Tuesday, May 19, 2020
from 9 AM – 11 AM
on BlackBoard
 Covers Part III of the course.

GEOG 101 PART III

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Life on Earth: Population Geography 1 - 2

Chapter 6

Prof. Anthony Grande
 Hunter College Geography

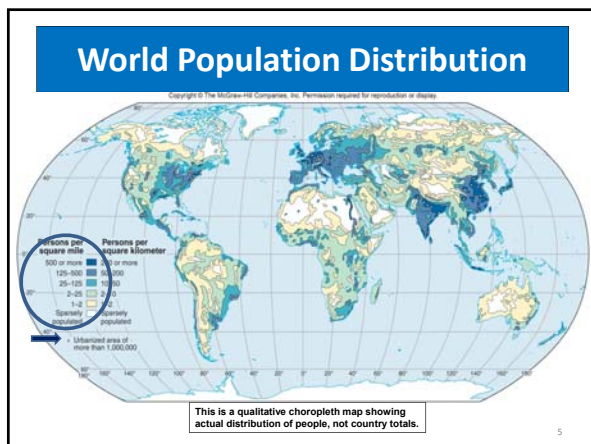
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Lecture Topics for Part III

- ✓ I Intro. to Human Geography
- II Life on the Earth
 - A. Habitat
 - B. Demography
 - C. Medical geography
 - D. Population growth
 - E. Biogeography/Ecology
- III Economic Geography
- IV Urban Geography
- V Political Geography

Population Geography

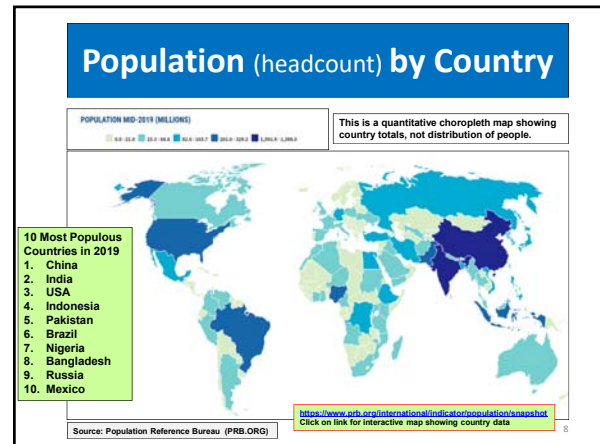
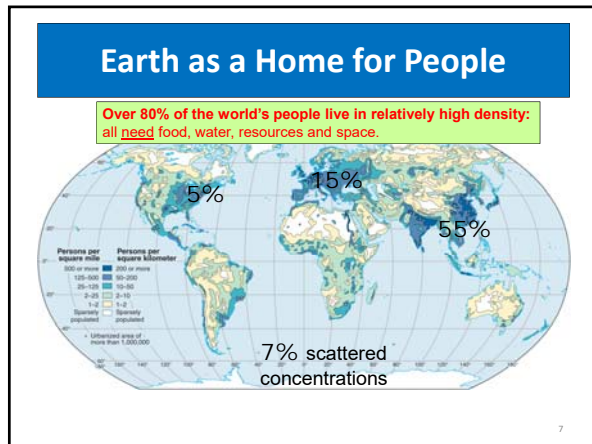
The study of people in relation to their habitat; spatially studies their distribution, make-up, movement, well-being and growth potential.



Earth as a Home for People

- **50%** of the world's people live on **5%** of the land.
- **90%** of the world's people live on **10%** of the land.
- **95%** of the world's people live on **40%** of the land.

Conversely, **60%** of the land is **virtually empty** and has only **5%** of the world's people.

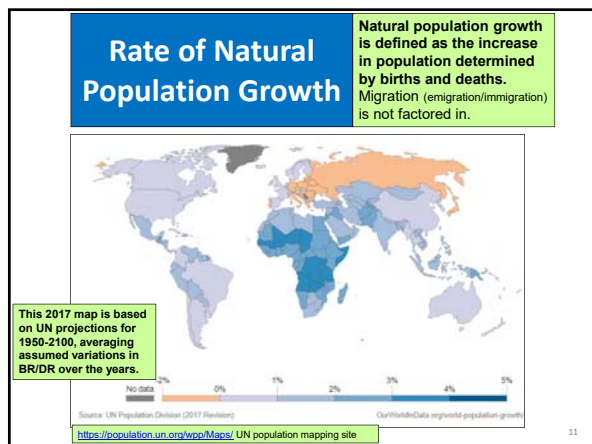
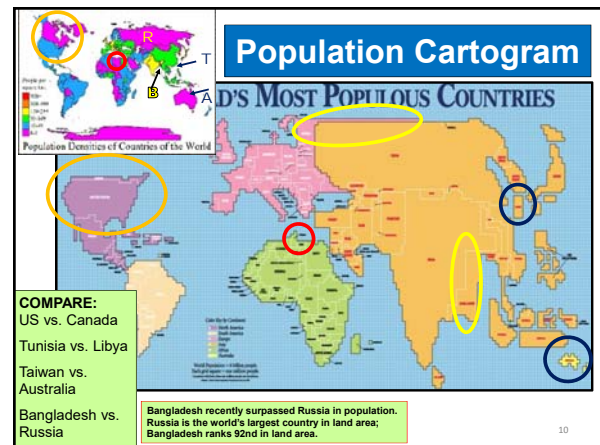


World's 10 Largest Countries

2020 World Population: 7,794,798,739

Flag	Country	2020 (Live)	2019 Population	Area	2019 Density	Growth Rate	World %	Rank
	China	1,438,317,637	1,433,783,686	9,706,961 km ²	148/km ²	0.39%	18.47%	1
	India	1,377,465,900	1,366,417,754	3,287,590 km ²	420/km ²	0.99%	17.70%	2
	United States	330,635,126	329,064,917	9,372,610 km ²	35/km ²	0.59%	4.25%	3
	Indonesia	272,981,233	270,625,568	1,904,569 km ²	144/km ²	1.07%	3.51%	4
	Pakistan	220,091,906	216,565,318	881,912 km ²	250/km ²	2.00%	2.83%	5
	Brazil	212,281,435	211,049,527	8,515,767 km ²	25/km ²	0.72%	2.73%	6
	Nigeria	205,172,147	200,963,599	923,768 km ²	223/km ²	2.58%	2.64%	7
	Bangladesh	164,384,989	163,046,161	147,570 km ²	1,116/km ²	1.01%	2.11%	8
	Russia	145,925,112	145,872,256	17,099,142 km ²	9/km ²	0.04%	1.87%	9
	Mexico	128,679,137	127,575,529	1,964,375 km ²	65/km ²	1.00%	1.65%	10


<http://worldpopulationreview.com> Interactive and live updating site



- ### Factors that Encourage Settlement and Higher Population Densities
1. Landforms (size, topography, altitude, situation)
 2. Climate
 3. Soil fertility
 4. Natural vegetation and wildlife
 5. Water supply
 6. Mineral and energy resources
 7. Absence of natural hazards (safe areas)
 8. Absence of disease and pests (healthy areas)

- 1. Landforms
- 2. Climate
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Factors that Encourage Settlement and Higher Population Densities



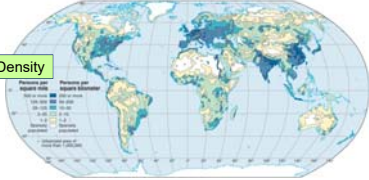
- ✓ All 8 are modified by levels of technology and forms of economy.
- ✓ All 8 are influenced by historical circumstances and cultural parameters.

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Soil Fertility vs. Population Density



Naturally fertile areas



World Population Density

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Habitat Decisions

❖ **7.79 billion people need food, water, shelter, resources and living space + a place for their waste.**

- People have a perception of what the environment has to offer.
- They make choices; people make changes.
- They create mental images and mental maps.
- They are influenced by **push-pull-stay** factors.

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Push-Pull-Stay Factors

- ❖ **PUSH factor:** characteristic of a region that leads to dissatisfaction; encourages movement away (**negative connotation**).
- ❖ **PULL factor:** characteristic of a region that has an attractive force, drawing migrants from other regions (**positive connotation**).
- ❖ **STAY factor:** characteristic of a region that keeps people where they are (**can either be positive or negative**).

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Push-Pull-Stay


These factors can be either real or imagined.

Variables (perceptions) **include:**

- Distance
- Physical barriers
- Cultural factors
- Political factors
- Economic factors

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Where the People Are and What's There for Them



We need data to evaluate a population.

1. Numbers of people.
2. Concentration of people.
3. Other data to help assess a situation (quality of life within a habitat)

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Population Dynamics

Things we need to know about a population:

1. Where are they found (locations)?
2. What are their growth rates?
3. What is their density or grouping pattern?
4. What are the urban/rural ratios?
5. How do the numbers relate to an area's resource base (habitat) and will it put a strain on the area's carrying capacity (habitat quality)?

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Carrying Capacity and Overpopulation

➤ **CARRYING CAPACITY:** The ability of the land to support life.

- ✓ It is directly related to **resource base** (food-water-shelter) which composes a **habitat**. Carrying capacity is **reached** if too many people use what is available and the **resource base** is stressed to its limit.
- ✓ Once carrying capacity is reached, the **quality of habitat diminishes** and an area is said to be overpopulated.

❖ **OVERPOPULATION:** Too many people for the **resource base**. (The term is also applied to animal habitats.)

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Population Growth

Can the earth support its fast-growing population?

- Does it have the capacity to keep up with a population's demands on its resources?
- How can we tell?
- Need data.

❖ **DEMOGRAPHY:** statistical study of a population.

However, there is a problem with the data. Accuracy of national censuses varies.

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Historic Population Growth

What caused world population to increase dramatically starting in the late 1700s?

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Population J-Curve

What caused world population to increase dramatically starting in the late 1700s?

- ✓ Better medical practices. Understanding causes of illness and the transmission of disease.
- ✓ Improved sanitation.
- ✓ Better agricultural methods
- ✓ Improved food supplies.
- ✓ Knowledge of nutrition.

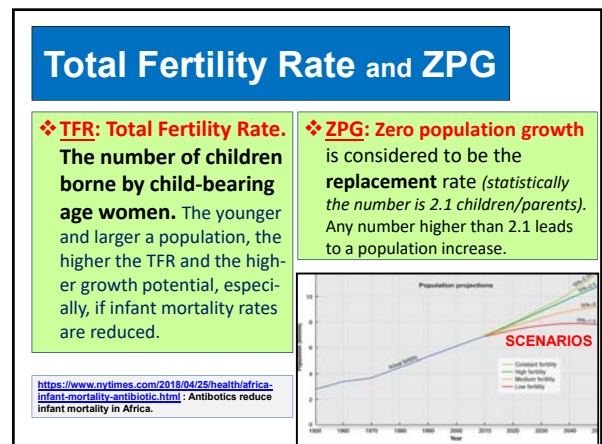
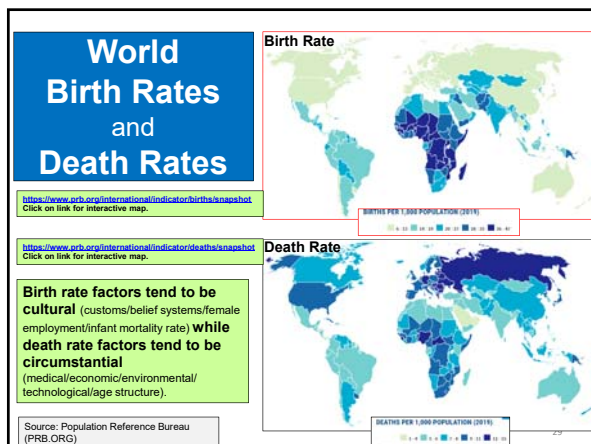
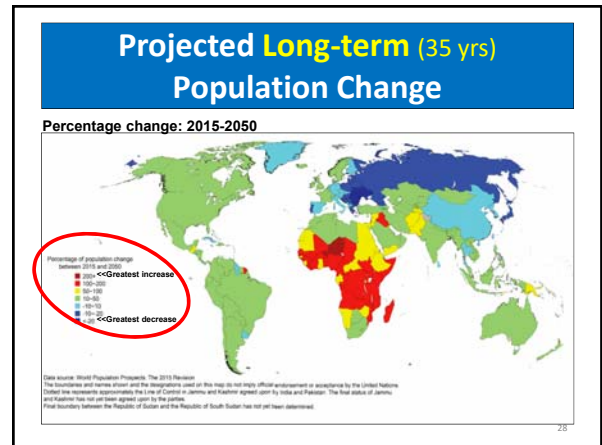
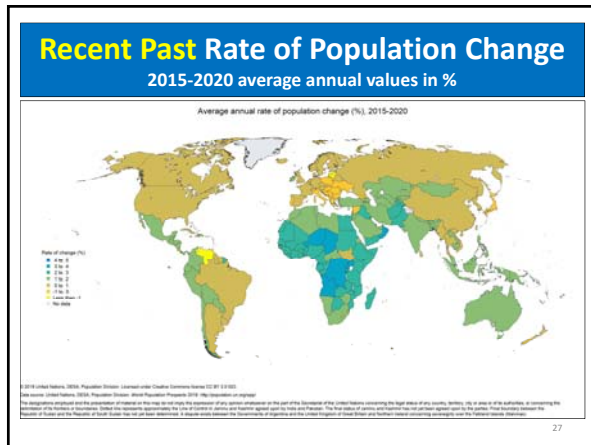
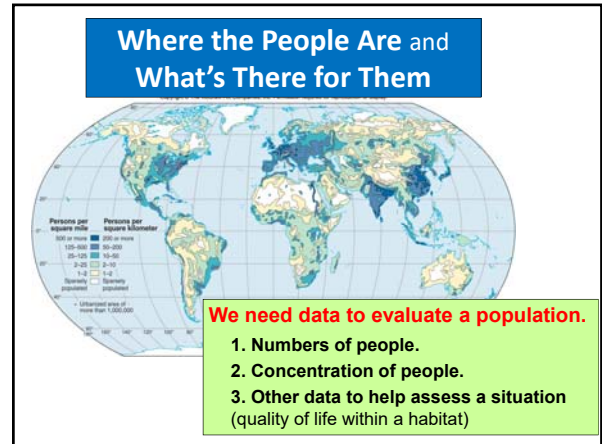
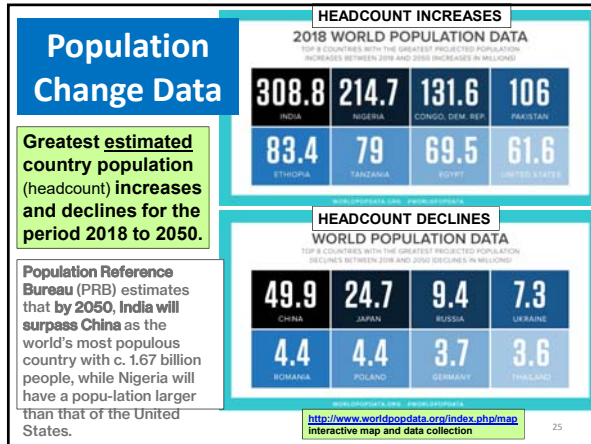
We slowed the death rate

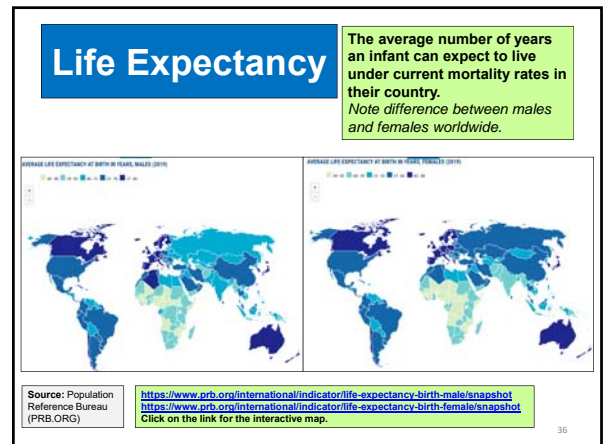
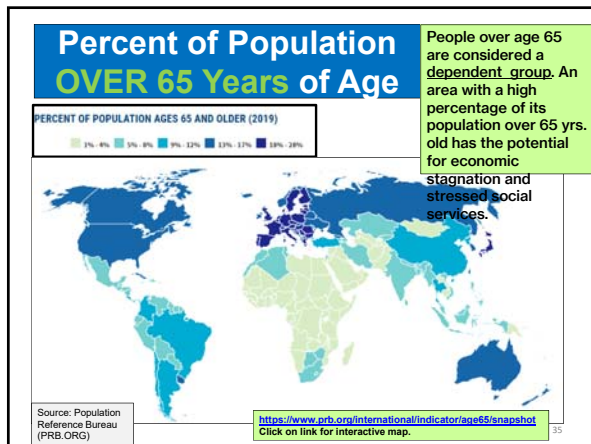
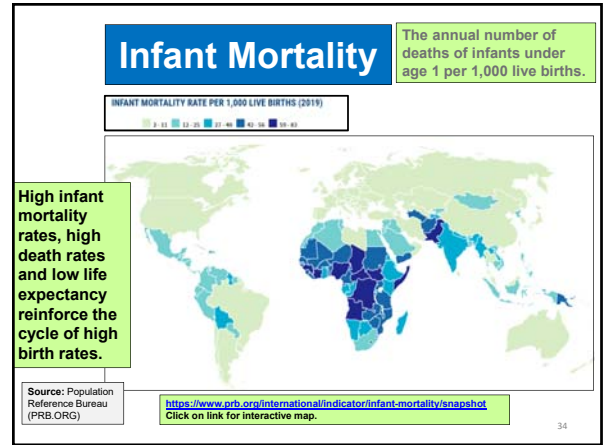
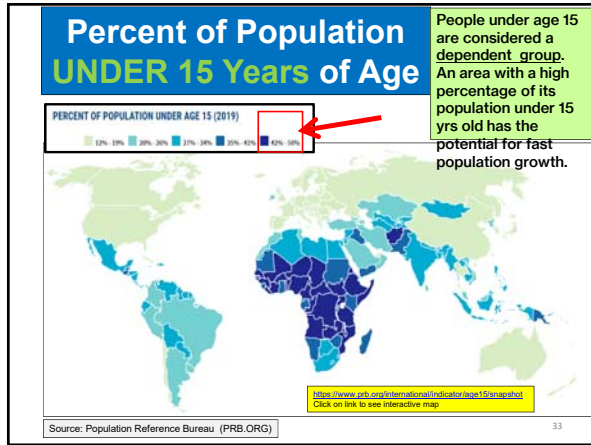
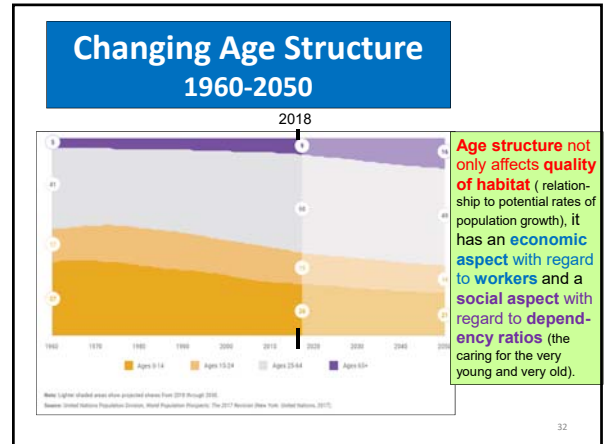
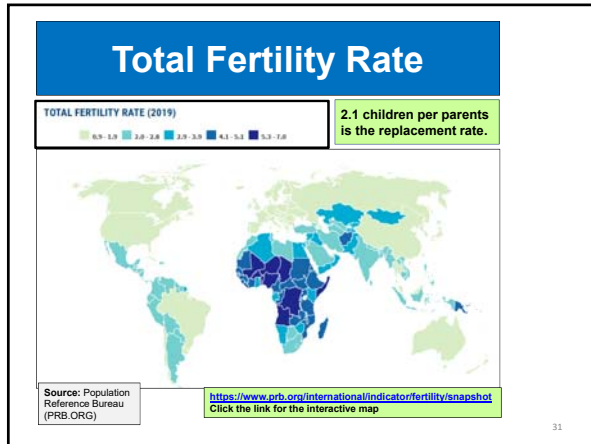
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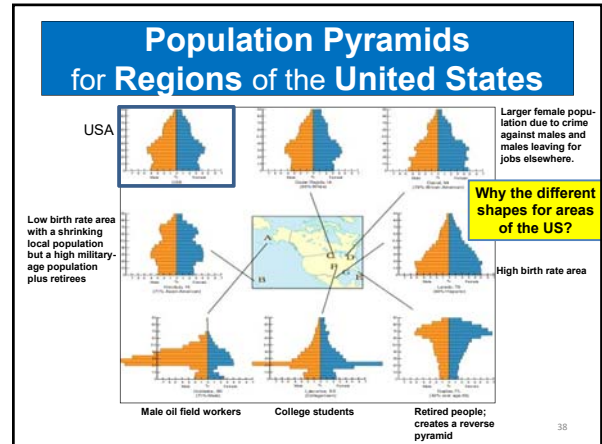
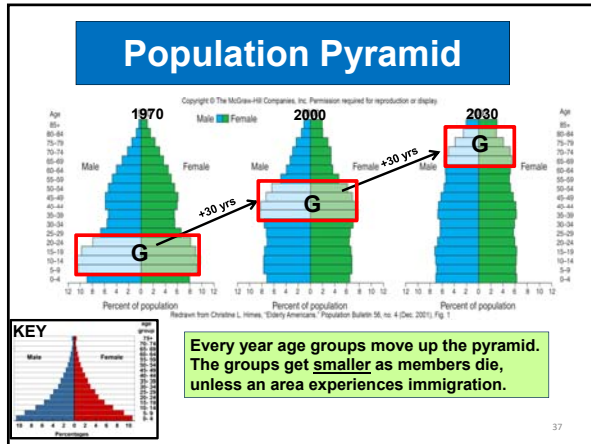
Population Growth and Projections

1. World population growth has been fast since the mid-1900s.
2. It has been regionally uneven.
3. Estimates are based on current growth rates and they change over time and with reassessment of regional situations.

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Malthusian Theory

In 1798 Thomas Malthus postulated that unless population growth was slowed (by "self-control", war or natural disaster), its rate of growth would soon exceed the rate of food production (exceed carrying capacity).

He predicted that people would not be able to feed themselves and widespread poverty and hunger would follow.

WHY? Because population tends to double in size quickly, while agriculture grows at a steady rate.

His prediction did not take into account new technologies that allowed people to produce more food.

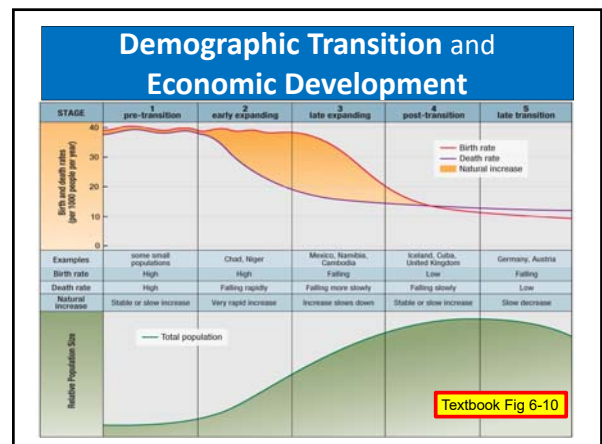
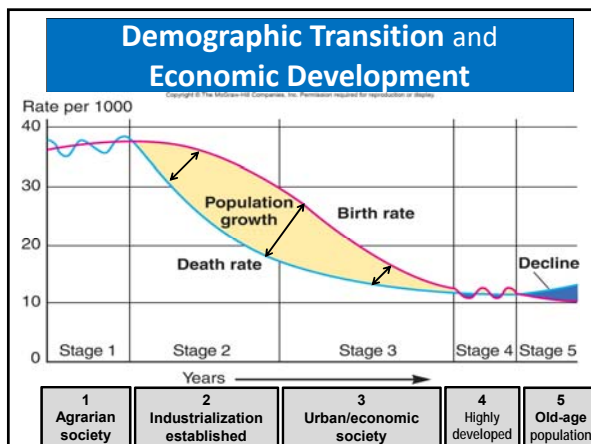
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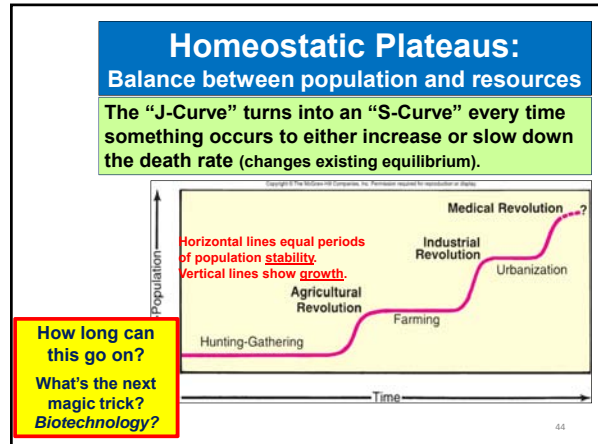
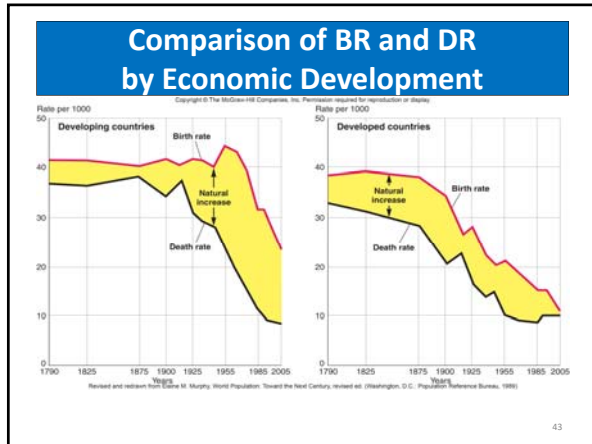
Demographic Transition

❖ The J-Curve becomes an S-Curve when a population reaches carrying capacity.

➤ It returns to a J-Curve when new technologies allow people to live longer.

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NEXT

Health and Nutrition affecting Populations: Medical Geography and

An introduction to Biogeography and Ecology