REMINDEI	RS Course Evaluation Period runs through May 17. Check your Hunter email for instructions.		
 EXAM III - Final Exam Tuesday, May 22. Covers only Part III of this course. 	◆ Extra Credit: "Think Geographically" Essays from any five of Chapters 4-12 chapters or the 3 rd topic from required essay list plus 4 chapter essays.		
Textbook chapters for exam III: Selected parts of Ch. 6-12.	 Last day to submit is May 15 but it is best to do them as you finish reading a chapter. Any other form of extra credit proposal must be approved by me in advance. 		
Two required essays (10% of your grade) were due Mar. 27 th . Late penalty new applies			
Late penalty now applies.	 Endo evaluating to admine brock the default. Don't wait for the night before to do it. 		







Health and Nutrition

Important part of the population question.

- Areas with good health and nutrition can accommodate large numbers of people.
- ✓ They are also become **PULL** factors.
- Analysis includes:
 - Food availability (type/diet/caloric value)
 - Life expectancy/infant mortality (BR/DR/wellness)
 - Disease (susceptibility/transmission/DR/social issues)







Hunger vs. **Malnutrition** Hunger: A feeling when one doesn't eat enough food to fill current physiological needs. It can be temporary or long-lasting (when the person does not get enough to eat to maintain physical needs over a long period of time). Hunger can lead to malnutrition. Malnutrition: any disorder of nutrition resulting from an unbalanced, insuffici-ent or excessive diet or from impaired absorption, assimilation or use of foods. Chronic malnutrition: the intake of lower amounts of nutrients than the Undernutrition: caused by an inadebody needs over a long period of time. It can result in physiological quate food supply or an inability of the body to use the nutrients in food. short-comings and vulnerability to Overnutrition: excess nutrient and disease and other illnesses. calorie intake over time; may be regarded as a form of malnutrition when it leads https://www.worldhunger.org/h and-nutrition-facts-copy/ to morbid obesity.









immediately.















Population Growth and Overpopulation

The world needs to deal with the present rate of population growth and overpopulation.

- There is a need to either <u>increase</u> the carrying capacity of an area (habitat quality) or <u>reduce</u> the stress of a population on the habitat.
- Can this be done? How can this be done?

Population Growth			
		2017 = c.7.6 billion 6 yrs to add ½ billion	
1 AD: 250 mil people on earth 1650: 500 mil = 1,650 yrs to double		Millions 7000	
1830: 1 billion = 1830 yrs to reach 1 billion		- 6000	
1925: 2 billion = 95 yrs to add 1 billion		- 5000	
1900.3 billion = 33 yrs to add 1 billion $1975:4 billion = 15 yrs to add 1 billion$		- 4000	
1986: 5 billion = 11 yrs to add 1 billion		- 3000	
2000: 6 billion = 14 yrs to add 1 billion 2011: 7 billion = 11 yrs to add 1 billion		- 2000	
>2023: 8 billion = 12 yrs to add 1 billion?		- 1000 - 500	
8000 7000 6000 5000 4000 3000 2000 1000 B.C. A.D. 1000 2000 Years 22			

Dealing with Population Growth

How can this be done?

There are 5 general scenarios:

1. Expand the resource base

- 2. Emigration
 - 3. Economic change
 - 4. Education
 - 5. Natural population controls

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Dealing with Population Growth

How can this be done?

1. Expand the resource base (carrying capacity).

- A. Use of technology (existing and/or new).
- B. Creation of artificial environments.
- C. Make new discoveries.

Dealing with Population Growth

How can this be done?

2. Emigration.

- A. Encourage movement away
- B. Discourage in-migration
- C. Relocate people to other areas (transmigration)

Dealing with Population Growth

How can this be done?

- 3. Economic change (demographic transition model)
 - A. Shift from an agrarian to an industrial economy
- B. Shift from rural to urban settlement (may have a negative impact if cities take over farmland)
 - C. Use of technology

Dealing with Population Growth

How can this be done?

4. Education

- A. Knowledge of the local situation
- B. Ability to read and follow instructions
- C. Training in the use of technology
- D. Changing the attitudes and philosophies of people (i.e., culture) regarding family size through dialogue and reasoning.

Dealing with Population Growth

How can this be done?

- 5. Natural population controls (involves ethical and moral issues)
 - A. Famine
 - B. Disease
 - C. War
 - D. Poverty
 - Should the world community help borderline areas by providing aid for hunger and prevent disease?

Biogeography

Studies the spatial aspects of plant and animal life.

- ✓ The relationship between a life forms and the physical environment.
- ✓ Looks at the composition of biomes, habitats, ranges, etc.
- ✓ Migrations.













