

Earth Systems II - Unit 7 Study Guide

es2u7sg (Human Population)

Web Resources: <http://aede.osu.edu/class/aede597.01/gonzalez/pyramid/>

Study Objectives (things to know)

1. Assess the scope of human population. 218-220
 - a. How fast is the human population growing?
 - b. Is the population growing equally around the world?
2. Evaluate how human population, affluence, and technology affect the environment. 220-222
 - a. Describe the IPAT model.
 - b. Describe what each part of the model means.
3. Explain and apply the fundamentals of demography. 222-228
 - a. Explain the following as they apply to demography:
 - a.i. Population size
 - a.ii. Population density and distribution
 - a.iii. Age structure
 - a.iv. Sex ratios
 - a.v. Rates of birth, death, immigration and emigration
 - a.vi. Total fertility rate vs replacement fertility rate
4. Outline the concept of demographic transition. 228-229
 - a. Describe the pre-industrial stage.
 - b. Describe the transitional stage.
 - c. Describe the industrial stage.
 - d. Describe the post-industrial stage.
 - e. Can we apply this model everywhere?
5. Describe how wealth, status of women, family planning programs, and HIV/AIDS affect population growth. 230-240
 - a. How does empowering women affect population growth?
 - b. What happened in Bangladesh?
 - c. Describe some policies and programs that have had success around the globe.

Terms to be familiar with: http://www.mreclassroom.com/earthsystems_online_cw/human_population/populationcw.html

demography industrial stage life expectancy post-industrial stage pre-industrial stage
replacement fertility total fertility rate transitional stage exponential growth IPAT model

To Do:

- Reads from Chapter 8: Human Population (above sections)
- Notebook **10pts**
 - _____ Notes on Study Objectives (right side)
 - _____ Reflections/Summaries (left side)
 - _____ Concept Map
 - _____ VG: "World in the Balance"
 - _____ Case Study: "Fearing the Future – Effects of China's One-Child Policy"
- Lab: Population Pyramids **10pts** (individual/online submission)
- **Quiz1** (SO 1 and 2) **10pts**
- **Quiz2** (SO 3-5) **10pts**
- Human Population **Exam 20pts**

Waste: Even the most conscientious consumers produce household waste and contribute indirectly to commercial waste. Residents of Lake County, Illinois produced 1.26 million tons of solid waste in 2008. Population growth is projected to cause waste to rise to 1.4 million tons by 2020. The county's landfills are rapidly filling up and could reach capacity in the next ten years. Source: populationconnection.org