

# Earth Systems II - Unit 7 Study Guide

## es2u7sg (Human Population)

Web Resources:

<http://www.pbs.org/wgbh/nova/worldbalance/>

<http://www.census.gov/ipc/www/idb/>

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

### Study Objectives:

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:
    - i. Population size
    - ii. Population density and distribution
    - iii. Age structure
    - iv. Sex ratios
    - v. Rates of birth, death, immigration and emigration
    - 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.

**Vocabulary:** [http://www.mreclassroom.com/earthsystems\\_online\\_cw/human\\_population/populationcw.html](http://www.mreclassroom.com/earthsystems_online_cw/human_population/populationcw.html)

(must have java enabled on your browser)

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

### Assignments:

- Read Chapter 8: Human Population (above sections)
- Notebook Check **10pts**
  - ✓ \_\_\_\_\_ 2-Column Notes on Study Objectives
  - ✓ \_\_\_\_\_ Concept Map on Vocabulary (individual/moodle submission)
  - ✓ \_\_\_\_\_ VG: "World in the Balance"
  - ✓ \_\_\_\_\_ Case Study: "Fearing the Future - Effects of China's One-Child Policy"
- Lab: Population Pyramids **10pts** (individual/moodle submission)
- Vocabulary Quiz **10pts**
- Unit 7 Test **20pts**