

# Quiz review

## Chp. 5 - 7

*Warning: boring ahead*

# Chp 5

## Migration

Homo sapiens migrated out of Africa 100K years ago, and have been moving ever since.

Key terms to know:

Birth rate, population rate, death rate

# Demographic transitions (stages)

Stage 1: Forage for what they can find, little stability. High disease rates & death rates

Stage 2: Morality transition -- improved conditions, especially food and health care.

Stage 3: Fertility transition -- social and cultural changes that lead to lower birthrates.

Stage 4: Stability! -- low birth and death rates.

## IPAT equation (wealth and technology)

The **impact** on an environment is proportional to the size of the **population** times the level of **affluence** times the types of **technology** it uses.

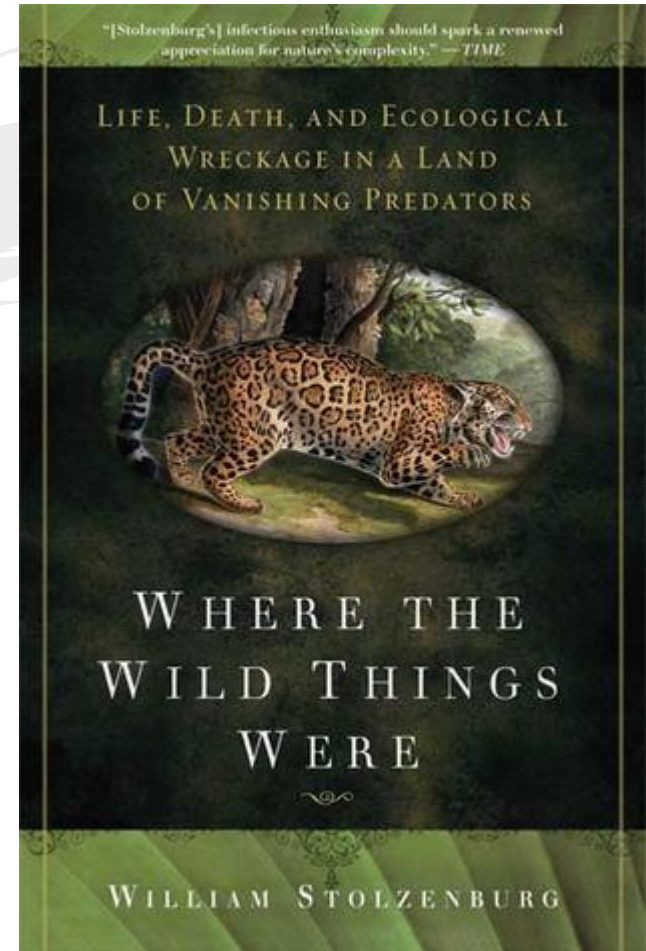
Population control: What methods are there? What have others tried?

# Chp 6

Competition (inter, intra)

What -vore is what?

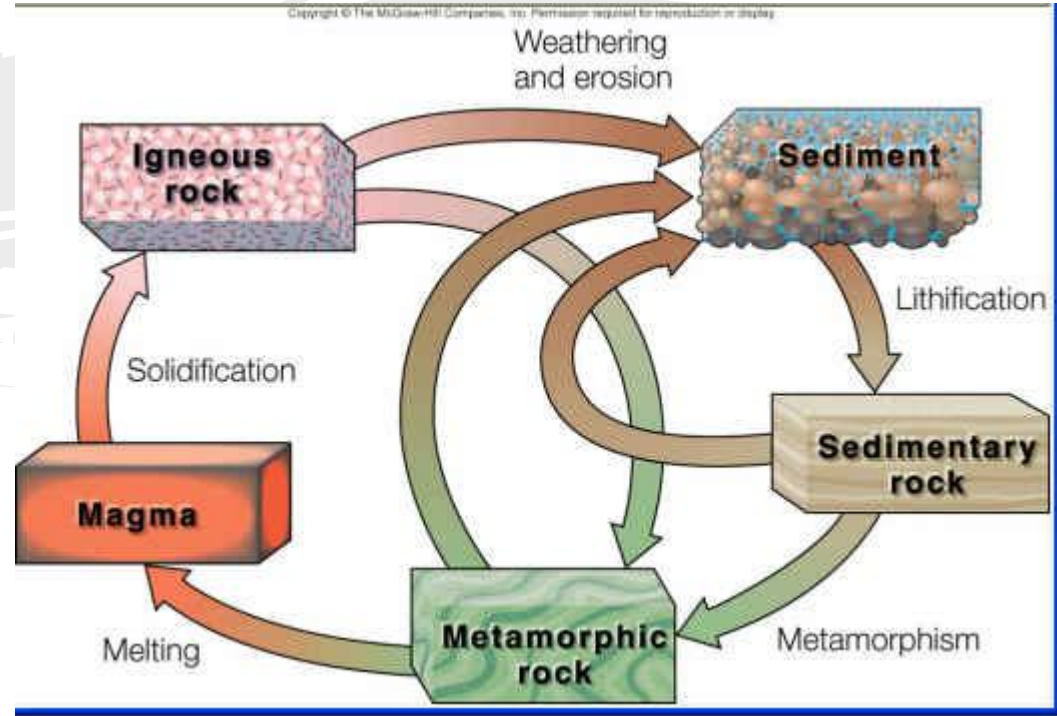
Food Web (and the reason  
we call it that)  
Trophic levels (Pg. 158)



# Chp 7

## Rock cycle

Elemental  
abundance -  
Not all nutrients  
are everywhere.

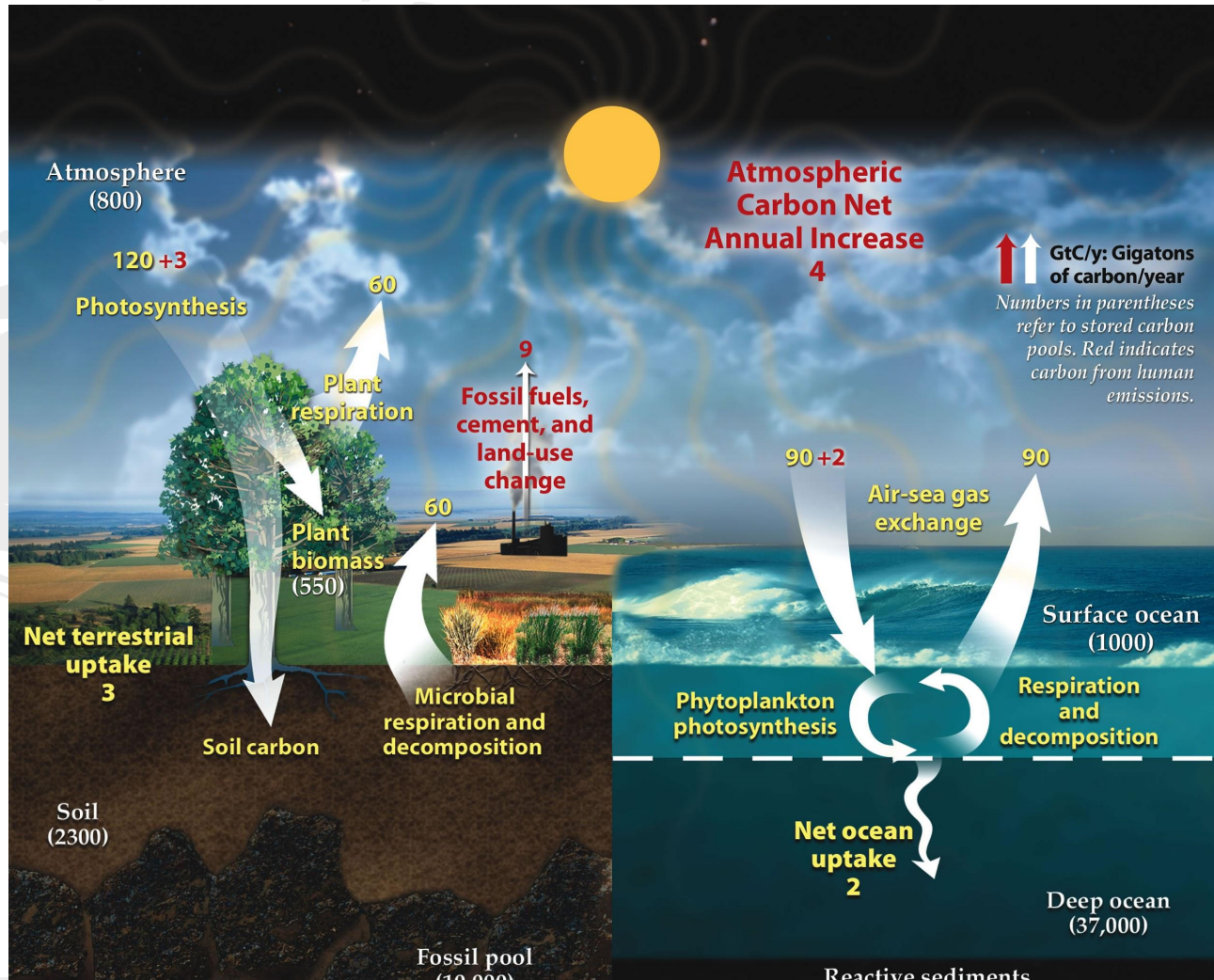


From bombs to plant growth (HB process)

Chemical process that was developed for bombs, then applied to fertilizers, and is able to fix nitrogen in the soil for plants to use.

Importance of nitrogen fixation on environment -- algae (eutrophication)





# Choose your own adventure

With the time that's left do you want to...

- A.) Watch a documentary that ties together demographics and the carbon cycle (Industrial Revolution, historical notes and exploration)
- B.) Go work on your next assignments/study in the computer lab?
- C.) Take your quiz now.
- D.) Start on Chapter 8 lectures and exploration