Chapter 26 Outline
Ecology Population Growth & Regulation

- Ecology
  - _____ (Greek)
  - Study of _____ between _____ and their _____
  - abiotic vs. biotic

- Population _____
- Community _____
- Ecosystem _____
- Biosphere _____

- Population size
  - Size of a population can fluctuate in response to _____
  - Factors:
  - A stable population has the same number of _____ _____
  - Population decline/increase
  - Biotic _____
  - Environmental _____

- Graphs:
  - Exponential Growth (J-curve) (pg 516)

    A continuous _____

    - Boom and Bust Cycle (pg 517; 521)

    - S-curve

- Environmental Resistance: Ways to control _____
  - Competition Controls Population Size
    - _____ Competition

      Among individuals of _____
    - _____ Competition

      Among individuals of _____
  - Predation Controls Population Size
    - Removing or introduction of a predator can _____

      _____

    - http://chil.vcoe.org/eagle_cam.htm

- Predation Controls Population Size
    - Dispersal Patterns: _____

      _____

      Clumped _____

      Uniform _____

      Random _____

- How is the human population changing? (pg 527)

  www.ibiblio.org/lunarbin/worldpop

  - _____ and _____ Revolution
  - _____ Revolution
  - _____ Revolution
  - We have reduced some pressures of _____
  - Human population growth in _____
  - Developed Countries

  - Developing Countries

  - Pg 529-531

  - US population is _____ (Pg 532)

- Human Population: Read Earth Watch: pg 528
    - The amount of space/resources we need for all 6.5+ billion of us is

      _____ (2002)

        - Not taking account any _____
    - _____ people are chronically undernourished
    - _____ people lack clean water
    - _____ people have no sanitation
    - _____ of the world's agricultural land is suffering from erosion

- What Can We Do? (How Big is Your "Ecological Footprint" Pg 533
    -
    -
    -
    - www.myfootprint.org
    - US average: _____ acres each
    - Global average: _____ acres each
    - Earth's Carrying Capacity: _____ acres each
    - Your "Ecological Footprint"

- Other Resources
    - An Inconvenient Truth: Watch the Movie/Go to Website
    - The Future of Life by E. O. Wilson

Key Terms to Define from Chapter 26

(For Review Purposes; do not turn in)

1. abiotic
2. biotic
3. biotic potential
4. birth rate
5. boom-and-bust cycle
6. carrying capacity
7. clumped distribution
8. community
9. competition
10. death rate
11. ecological footprint
12. ecology
13. ecosystem
14. emigratrion
15. environmental resistance
16. exponential growth
17. growth rate
18. host immigration
19. interspecific competition
20. intraspecific competition
21. J-curve
22. population
23. predator
24. prey
25. random distribution
26. S-curve
27. uniform distribution

Homework (Turn in on Exam day)

- Chapter Question Pg 534

  Thinking through concepts: 2

- Ecological FootPrint

  - Take the quiz on www.myfootprint.org

  - Print results page, make sure it includes all graphs.
  - Calculate your ecological footprint into acres

    1 hectare = 2.47 acres

- From the questions given to you while taking the footprint quiz, what is one thing you can realistically do to decrease your ecological footprint.