

Apes Calendar 29 March to 2 April

POPULATION UNIT

Mrs. Ramos and Mr. Bartram

Human Population	4 days	ZPG video clip, Cemetery data, nation report	LTS
------------------	--------	--	-----

3/29 -ZPG -Notes: Human Population -Pop. Dynamic Computer Activity HW: Calculate Human Footprint & bring in printout + Qs	3/30 Pop. Dynamic Computer Activity -Discuss Results	3/31 Turn in Lab Book: Ecocolumn LD50 -Exponential Growth video	4/1 -Turn in Pop. Computer Activity -Turn in Footprint -Discuss Footprint	4/2 Quiz -Population Problems -Turn in Outlines HW: New Outlines HW: Solid Wastes
4/5 SPRING BREAK	4/6 SPRING BREAK	4/7 SPRING BREAK	4/8 SPRING BREAK	4/9 SPRING BREAK

Outlines:

Chapter 8: all including **Core case study on Sea Otters, Qs: 1,2,6**

Chapter 9: all including Core Case study on world overpopulated, **Case study: U.S. Immigration, Case study India, Case study China, Qs: 4,5,7**

Population Dynamic:

-Students work in pairs. Each student is responsible for 2 types of nation growths for a total of 4 types.

Overall Goals: POPULATION

- Population Dynamics
 - Describe the predator/prey relationship.
 - Difference between stable, irruptive, cyclic...what would cause the differences?
 - Describe factors that increase the biotic potential of a population
 - Describe factors that increase the environmental resistance of a population
 - Describe R-Strategist vs. K-Strategist as well as the corresponding survivorship curves
 - How does genetic variability & biodiversity influence evolution?
 - How does being an R-strategist vs. a K-strategist influence evolution?
 - Draw a typical growth curve and label j curve (exponential), s curve (stable), carrying capacity.
 - Describe the human population growth dilemma: causes, effects, solutions.
 - Describe the 4 different age structure diagrams
 - Describe and explain the 4 phases of the demographic transition graph. Give examples of a country that represents each of the phases.
 - Population dynamic problems