

FRANKLIN-SIMPSON HIGH SCHOOL

Course Name: APES **Unit Name:** Human Population

Objectives:

III. Population

A. Population Biology Concepts

(Population ecology; carrying capacity; reproductive strategies; survivorship)

B. Human Population

1. Human population dynamics

(Historical population sizes; distribution; fertility rates; growth rates and doubling times; demographic transition; age-structure diagrams)

2. Population size

(Strategies for sustainability; case studies; national policies)

3. Impacts of population growth

(Hunger; disease; economic effects; resource use; habitat destruction)

Purpose of the Unit:

To understand human population growth including social, economic and environmental factors that determine growth, as well as resource consumption of a growing human population.

Prerequisites:

Prior units in this course, most importantly Ecology

Daily Lesson Guide

Day	Lesson Content and Objectives	Focus Questions	Critical Thinking (High Yield / Literacy /LTF/etc.)	Engagement	Assessment and/or Accommodations
1 12/3	Introduction to human population.	Discuss how human population is measured, how it has changed throughout human history, and how it is distributed across the earth.	Discussion Nonlinguistic representation Generating/Testing Hypothesis	Human population videos from Nat Geo Class discussion of the history of human population and what has affected it	Bell Ringer Use ideas presented in discussion to assess what they know, and what they can generate.
2 12/4	Review population ecology, growth models, and reproductive strategies.	Explain growth models, reproductive strategies, survivorship curves, and density- dependent and independent factors.	Nonlinguistic representation Similarities and Differences	White board review of population ecology topics	Bell Ringer Assess their knowledge as they review, and clear up misconceptions
3 12/5	Age Structure Diagrams	Describe important aspects of global and national population growth using demographic terminology and tools.	Authenticity Novelty/Variety	Foldables	Bell Ringer Exit slip about information attained after making foldables
4 12/6	Demographic Transition	Analyze relationships among changes in population size, economic development, and	Authenticity Novelty/Variety Working with others	Make large scale demographic transition charts, and discuss the implications of each transition (graphic organizer)	Bell Ringer Target questions with chart

		resource consumption at global and local scales.			
5 12/7	Population Math	Describe important aspects of global and national population growth using demographic terminology and tools.	Authenticity Clear/Modeled Expectations	Guided practice on questions	Bell Ringer Check work
6 12/10	Research on the demographics of different countries	Analyze relationships among changes in population size, economic development, and resource consumption at global and local scales.	Authenticity Clear/Modeled Expectations	Research about specific populations and their population demographics	Bell Ringer Check student's understanding as they work (Graphic Organizer)
7 12/11	Research on the demographics of different countries	Analyze relationships among changes in population size, economic development, and resource consumption at global and local scales.	Authenticity Clear/Modeled Expectations	Research about specific populations and their population demographics	Bell Ringer Check student's understanding as they work (Graphic Organizer)
8 12/12	Present on countries	Analyze relationships among changes in	Authenticity Clear/Modeled Expectations	Presentations about specific populations and their population demographics	Bell Ringer Assess project/presentation (Rubric)

		population size, economic development, and resource consumption at global and local scales.			
9 12/13	Population Economics	Evaluate the social, economic, and environmental factors that have contributed to decreasing growth rates in many countries.	Authenticity Clear/Modeled Expectations Discussion	Discussion on the economic impacts on population	Bell Ringer Exit Slip
10 12/14	Sustainability	Explain how people have attempted to harmonize economic development with sustainable development.	Generating and testing hypotheses Authenticity	Case studies about population and sustainability, discussion about sustainability	Bell Ringer Case Study guided questions
11 12/17	Review	All population concepts	Learning with others Assessment of learning	Review game Clicker Quiz	Bell Ringer Assess their knowledge as they review, and clear up misconceptions Clicker chapter quiz
12 12/18	MC Summative Test	All population concepts	Summative Test	Summative Test	Bell Ringer Summative Test
13 12/19	FRQ Summative Test	All population concepts	Summative Test	Summative Test	Bell Ringer Summative Test