#### Laboratory: Human Population Growth

Mrs. Côté Answer Key Enviro. Science 120

#### Pre Lab Work:

Before beginning this laboratory, answer the following questions on your own piece of paper in your notebook:

- 1. Define the following terms:
  - a. growth rate describes how fast a population is increasing or decreasing and is dependent upon the birth rate and death rate
  - b. birthrate is the number of infants born in a given year/1000 people in the population
  - death rate is the number of people who die in a given year/1000 individuals in the population
  - d. zero population growth when the population is in equilibrium or the number of births and deaths are equal
  - developed country countries that highly developed economy and advanced technology
  - developing country countries that are considered to have low standard of living, and undeveloped industrially
  - g. demographic transition refers to the transition from high birth and death rates to low birth and death rates
- What is a population explosion? How quickly is our population growing each year? What about each day?
   A population explosion is when a population lacks limited resources so is able to grow out of control. The human population is grows about 80 million a year and 219, 178 each day.
- How is the growth rate of the human population calculated?
   Growth rate = birth rate death rate
- 4. What causes a negative population growth? What causes a positive population growth? Negative population growth occurs when the birth rate is less than the death rate Positive population growth occurs when the birth rate exceeds the death rate
- Why do the two graphs appear to have a different shape?
   The population growth rate was much slower in the earlier years. The J-curve shows exponential population growth and the graphs are not drawn to the same scale.
- 6. Using a piece of paper, create the following charts:

Country	Birthrate	Death	Population	Population	Demographic	Relative Place	Sketch graph showing
	(%)	rate (%)	Growth 2005	Growth 2050	Transition	in Transition	Blue & Pink Line
USA	2.06	0.51	0.92	-0.06	1.55	5	

# **Investigation 19 Answers World Population Growth Lab**

Joost van Hoof, Hannah R. Marston

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