

lab 7.1

World Population

Objective

To teach students how to read age structure diagrams and how to research information about the population differences between developing and developed nations.

Approximate Time:

1 hour

Materials:

i Computer with internet access **Part 1**

Procedure

1. Go to the website <http://populationpyramid.net>
2. What is the estimate of the population of the world today?
3. Select one developing nation from the list of countries.

The developing country is _____ and it is located_____.

4. Click on each of the following years and sketch the age structure diagram:
 2015 2050 2100

5. Visit : <https://www.cia.gov/library/publications/the-world-factbook/rankorder/2054rank.html>

6. Find population information for your country by selecting it in the drop-down menu and then clicking “People and Society”. Record the following information in the chart below:

COUNTRY:

Student Version

Crude birth rate (births per thousand)	
Crude death rate (deaths per thousand)	
Life expectancy at birth	
Infant mortality rate	
Total fertility rate	
Net number of migrants	

Analysis Questions

1. What can you tell about your country's growth rate by looking at this country's age structure diagram?
 2. If the birth and death rates remain the same as they are today, what will the age structure diagram look like in 25 years?
 3. What are some factors that are likely to change the shape of this country's age structure diagram as the country develops?
 4. Determine the percentage of the population that has not yet reached childbearing age. What does this number say about the prospects for future growth?
 5. If this country's population is not increasing, what are some socioeconomic problems that might occur?
 6. Does this country have a baby boom (a bulge somewhere in the middle of the age structure diagram)? What could account for this?
 7. If you had a business and you wanted to capitalize on your information about the population age distribution, what would you sell and why?
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8. Is this country increasing in size, decreasing in size, or close to zero population growth?

Part 2

Procedure:

Repeat the entire procedure using a developed nation.

The developed country is _____ and it is located
_____.

1. Sketch the three age structure diagrams below:

Student Version

2.

2015

2050

2100

Visit:

<https://www.cia.gov/library/publications/the-worldfactbook/rankorder/2054rank.html>

and record the following information in the chart below.

COUNTRY: (Answers will vary depending on the country chosen)

Crude birth rate (births per thousand)	
Crude death rate (deaths per thousand)	
Life expectancy at birth	
Infant mortality rate	
Total fertility rate	
Net number of migrants	

Analysis Questions

1. What can you tell about this country's growth rate by looking at your population age structure diagram?
2. If the birth and death rates remain the same as they are today, what will this country's age structure diagram look like in 25 years?
3. What are some factors that could change the shape of this country's age structure diagram?
4. Determine the percentage of the population that has not yet reached childbearing age. What does this number say about the prospects for future growth?

5. If this country's population growth rate is not increasing, what are some socio-economic problems that might occur?
6. Does this country have a baby boom (a bulge somewhere in the middle of it)? What could account for this?
7. If you had a business and you wanted to capitalize on your information about the population age distribution, what would you sell and why?
8. Is this country increasing in size, decreasing in size, or close to zero population growth?