Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Core \_\_\_\_\_\_\_

**Global Population – 7 Billion and Counting**

**LESSON WARM-UP**- *After looking at the World Clock counter, complete the following predictions.*

By the end of class today, I predict the following:

1. The world's population will have increased by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.
2. The United States' population will have increased by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.
3. In Asia alone, the population will have increased by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.
4. Globally, there will have been \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hectares lost to desertification.
5. We will have lost \_\_\_\_\_\_\_\_\_\_ species of animals, plants, and insects through extinction.
6. Image Prediction – who is this person? Nationality? Age? Describe him/her.

**TASK 1: 7 BILLION AND COUNTING – Video Notes**

*Directions: While watching video clips, write down at least one fact for each video regarding world population.*

|  |  |  |
| --- | --- | --- |
| **7 BILLON** | **ARE YOU TYPICAL?** | **HOW DID WE GET SO BIG?**  |
|  |  |  |

**TASK 2: Population Density & Growth**

|  |  |
| --- | --- |
| **Population Density** | **Population Growth**  |
| Definition:  | Definition:  |
| How to calculate:  | How to calculate percent growth:  |
| Example: U.S. Population (2016 Census): 322,762,018 U.S. Total Land Area (sq mi.): 3,794,000  | Example: U.S. Population (2016 Census): 322,762,018U.S. Projected Population (2050): 388,865,000 |

**TASK 3: WORLD POPULATION DATA**

*Complete the world population chart below calculating population density and population percent growth. Round to the tenths place.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Country** | **Population (2016)** | **Land Area****(sq. mi.)** | **Projected Population (2050)** | **Population Density** | **Population Percent Growth** |
| United States  | 322,762,018 | 3,794,000 | 388,865,000 |  |  |
| Canada  | 36,578,188 | 3,855,000 | 44,135,600 |  |  |
| United Kingdom | 65,455,257 | 94,058 | 75,360,972 |  |  |
| Italy | 59,798,392 | 116,305 | 56,512,750 |  |  |
| Russia | 143,383,874 | 6,602,000 | 128,599,237 |  |  |
| China  | 1,387,412,351 | 3,748,000 | 1,348,056,330 |  |  |
| Japan  | 126,083,098 | 145,925 | 107,411,392 |  |  |
| Indonesia  | 263,094,844 | 741,100 | 322,237,405 |  |  |
| India  | 1,340,281,064 | 1,269,000 | 1,705,332,544 |  |  |
| Brazil | 211,077,994 | 3,288,000 | 238,270,379 |  |  |
| Nigeria  | 191,118,594 | 356,669 | 398,507,704 |  |  |
| Lebanon | 6,032,087 | 4,036 | 5,610,145 |  |  |

1. What country has the greatest population density? The least? What does that number tell you about life in that country?

GREATEST: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LEAST: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain: Explain:

1. What country will have the largest percent growth in population by 2050? The least? Explain what that number tells you about life in that country.

GREATEST: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LEAST: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain: Explain:

**LESSON CLOSURE** – *After re-visiting the World Clock counter at the end of class, complete your conclusions about world population and statistics.*

By the end of class today,

1. The world's population increased by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.
2. The United States' population will have increased by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.
3. In Asia alone, the population will have increased by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.
4. Globally, there will have been \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hectares lost to desertification.
5. We will have lost \_\_\_\_\_\_\_\_\_\_\_\_\_\_ species of animals, plants, and insects through extinction.

**Reflection Questions**

1. What conclusions can you make based on the population growth numbers above?
2. What impact on the environment is evident in the population data above?