

Bozeman AP Environmental Science | Big Idea #3 - Population
013 - Human Population Dynamics

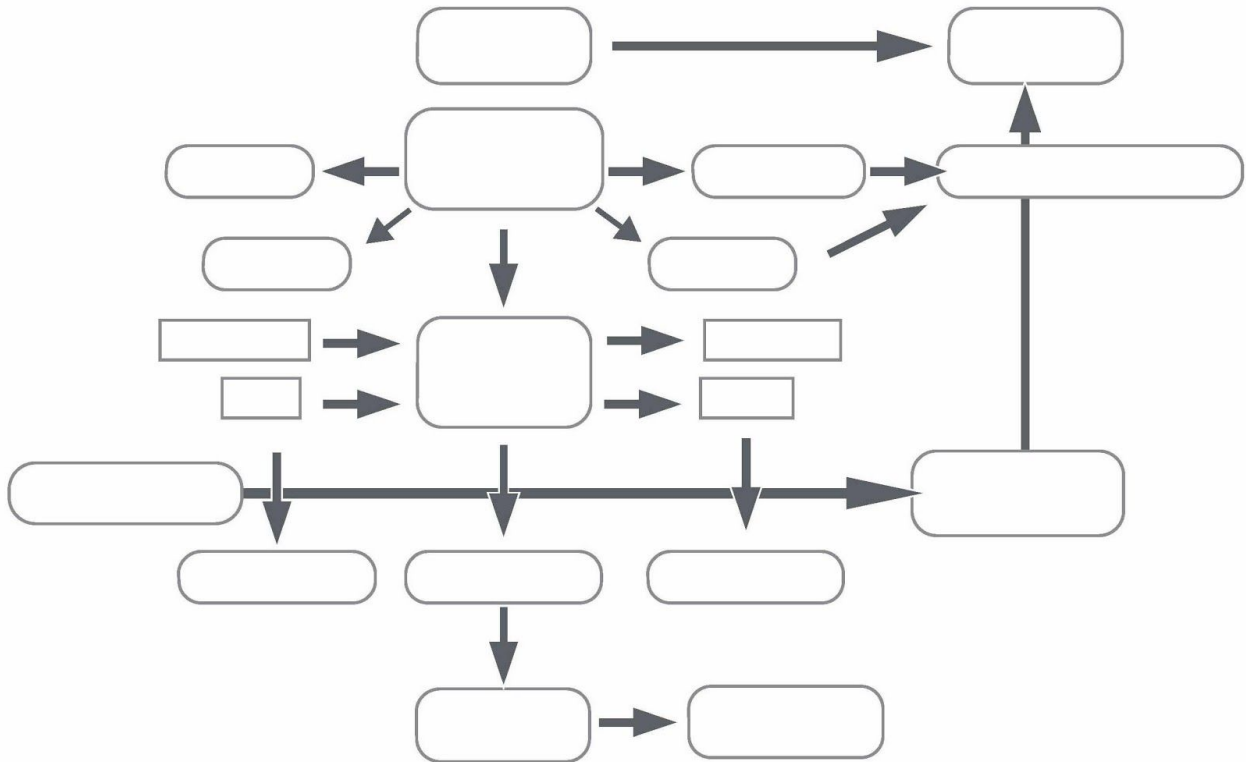
Name: _____ Block/Period: ____ Date: _____

Students: It is recommended that you watch the video with subtitles ON; be prepared to pause and rewind. The video is ~10 minutes long, but this worksheet will take you around ~30 to 35 minutes to complete. There will be a review / discussion afterwards requiring you to record corrections AND summarize additional material / information.

Description (-½ point for each time the rubric is not followed)	Point Value
Each question has been answered	0 ½ 1
Each question has been answered in a full sentence	0 ½ 1
Each answer has avoided 'it' or 'they' statements, by being clear on the topic of the answer	0 ½ 1
<i>Review:</i> Answers that were incorrect are corrected, <i>in a different color</i>	0 ½ 1
<i>Discussion:</i> 2 OR more <i>summary</i> statements of the additional material / information, <i>in a different color</i>	0 ½ 1
Score:	____ / 5

1. Explain the Rule of 70.

2. Listen to Mr. Anderson describe the various parts of the concept map, and pause after he reveals a new word, and filling in that word.



3. **Analyze** why the density of people is not uniform across the Earth, give justification in your answer.

4. **Describe** three ways that industrialization led to exponential growth in the human population.

i. _____

ii. _____

iii. _____

5. **Draw** and **Define** the Rate of Natural Increase. Make sure to write out the acronyms.

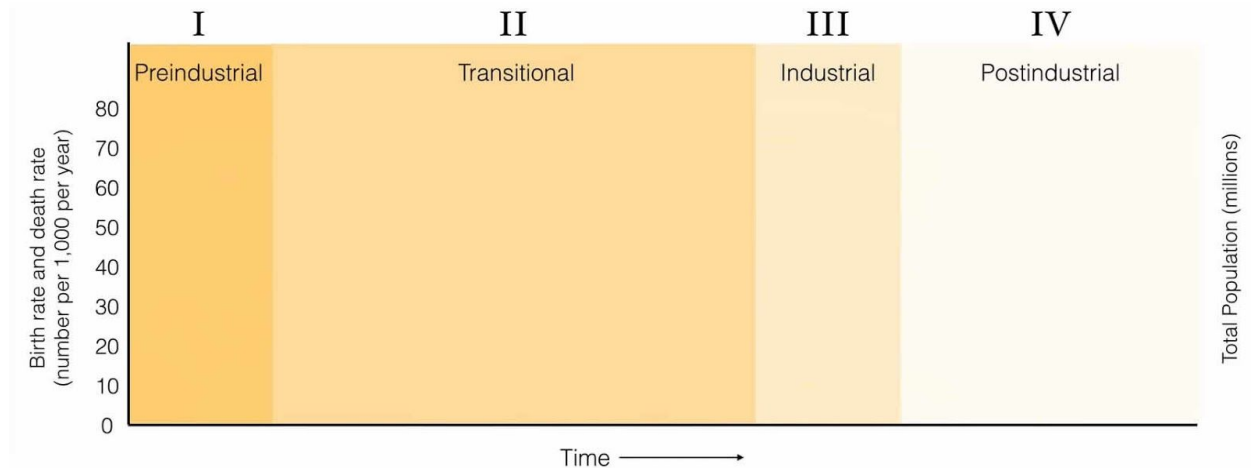
6. **Define** Doubling Time.

7. **Define** Total Fertility Rate (TFR).

8. **Explain** why women in developed countries have a lower TFR than developing countries.

9. The Replacement-Level Fertility is _____ children per woman.
10. **Analyze** why there is a correlation between high fertility rate and high mortality rate (look at ~6:00 and ~6:20 in the video for the images).

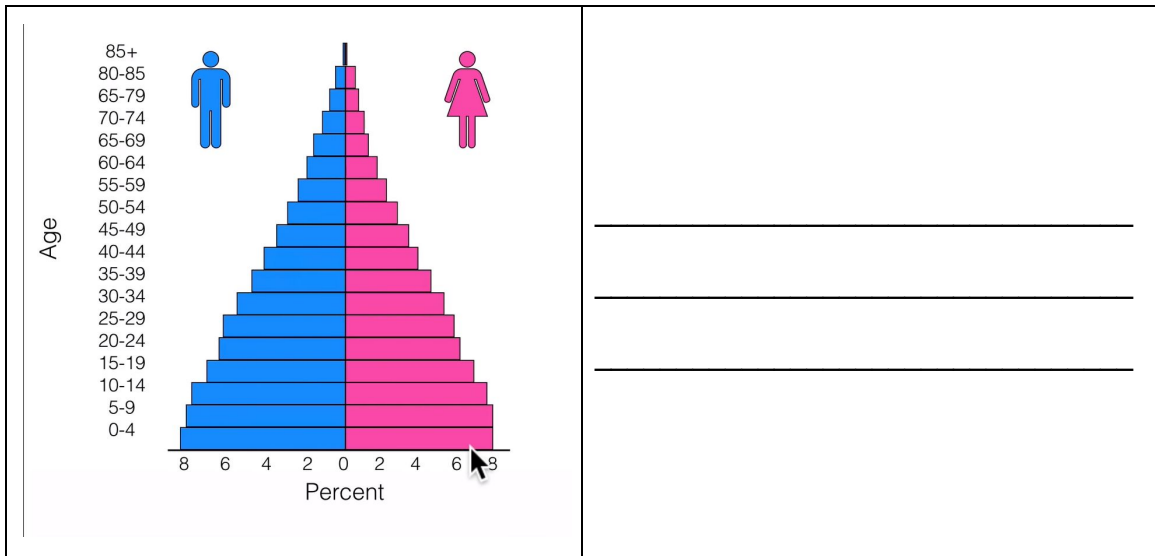
11. Fill in the Birthrate, Death Rate , and Total Population on the following Demographic Transition Chart. Then describe the changes for each step. (use the same color coding that Mr. Anderson uses as you follow along)



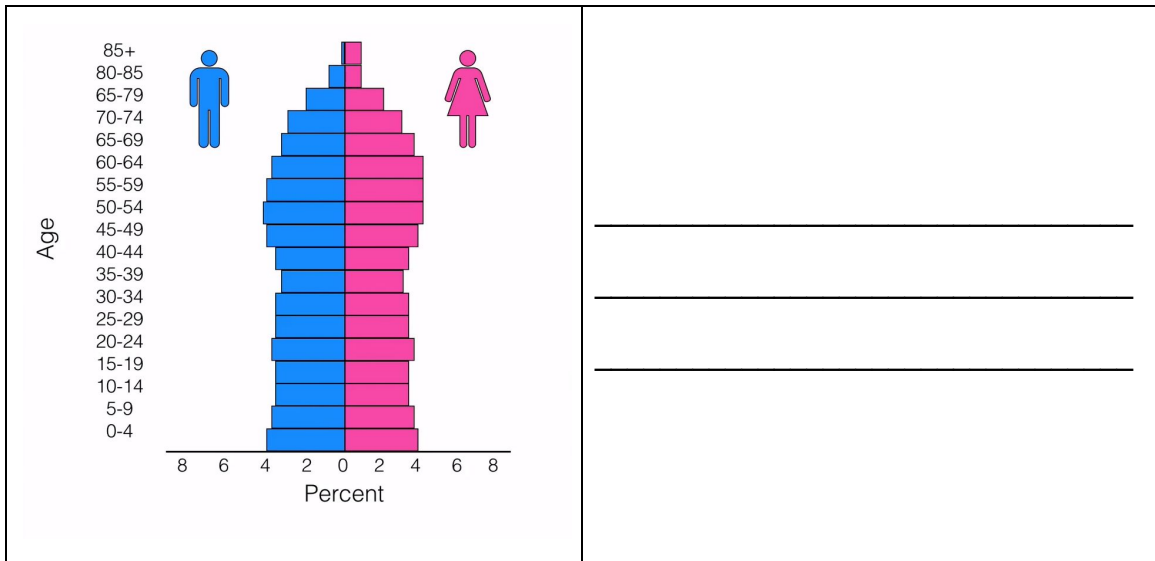
- i. Preindustrial
1. Birth Rate - _____
 2. Death Rate - _____
 3. Population - _____
- ii. Transitional
1. Birth Rate - _____
 2. Death Rate - _____
 3. Population - _____

- iii. Industrial
 - 1. Birth Rate - _____
 - 2. Death Rate - _____
 - 3. Population - _____
- iv. Postindustrial
 - 1. Birth Rate - _____
 - 2. Death Rate - _____
 - 3. Population - _____

12. Describe how which stage Demographic Transition the following age structure diagram is in.



13. Describe how which stage Demographic Transition the following age structure diagram is in.



14. Describe how which stage Demographic Transition the following age structure diagram is in.

