

Bozeman AP Environmental Science | Big Idea #3 - Population
015 - Human Population Impacts

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.

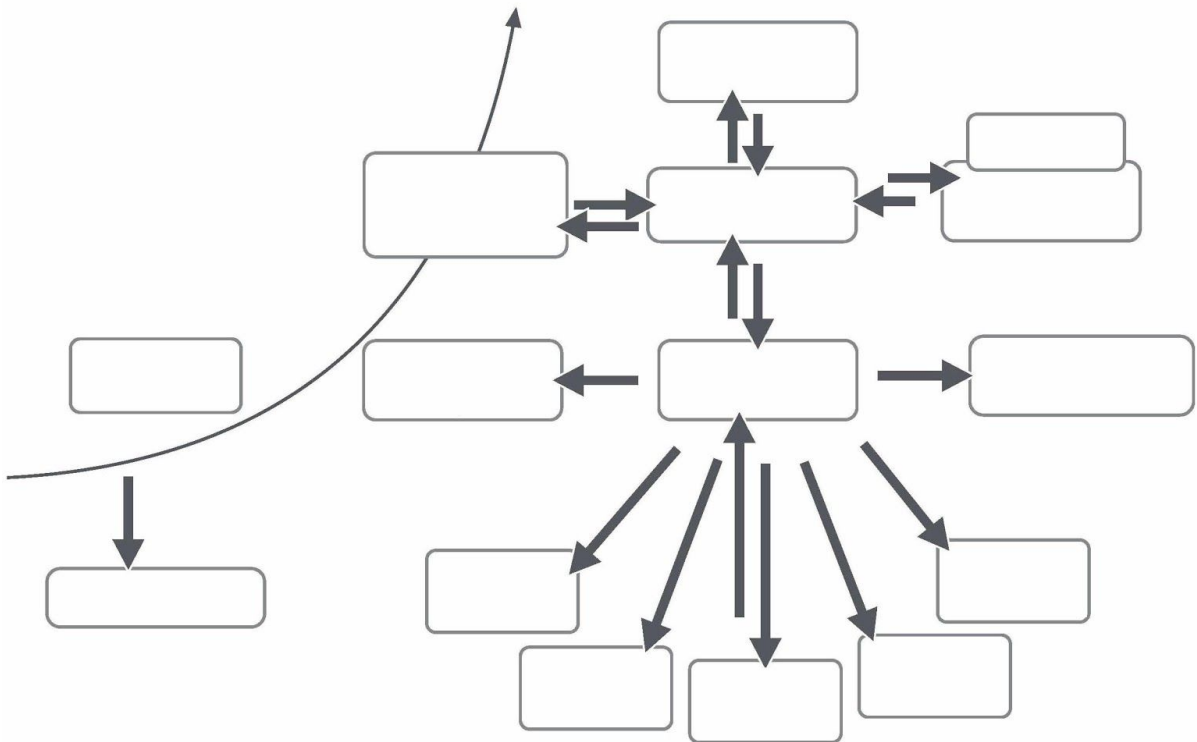
Description (-½ point for each time the rubric is not followed)	Point Value
Each question has been answered	0 ½ 1
Each question has been answered in a full sentence	0 ½ 1
Each answer has avoided 'it' or 'they' statements, by being clear on the topic of the answer	0 ½ 1
<i>Review: Answers that were incorrect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

1. _____ supports _____, which is driven by _____.

2. **Analyze** why there is more carbon-dioxide emissions in the northern hemisphere.

3. **Explain** why there is a reduction of carbon-dioxide in the atmosphere during the spring to summer, but an increase from fall to winter. (Reminder: these seasons are only for the northern hemisphere, they would be the opposite in the southern hemisphere.)

4. 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.



5. **Define** the IPAT equation (*not an equation, a generalization*).

The IPAT equation is a long portion of the video from 3:30 to 4:30. Students will need to watch the entire segment first, then come back to answer question #6.

6. Analyze why Burundi has a *low* Impact in the IPAT equation VERSUS the United Arab Emirates (U.A.E.) *high* Impact.

i. Both countries -

ii. Burundi -

● **Describe** Burundi's Ecological Footprint -

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iii. U.A.E. -

● **Describe** the U.A.E.'s Ecological Footprint -

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7. Describe the Biocapacity of Earth.

8. **Analyze** the *population* and *poverty* worldmapper.org maps. What correlations do you see.

9. **Analyze** the *hunger* and *health* worldmapper.org maps. What correlations do you see.

10. **Describe** why Africa has such a larger impact for *disease* from the worldmapper.org map.

11. **Analyze** the *income*, *ecological footprint*, and *resource use* worldmapper.org maps. What correlations do you see.





12. Analyze why the *habitat destruction* worldmapper.org map shows a inverse relationship to those in question #11.
