Bozeman AP Environmental Science | Big Idea #3 - Population 012 - Population Ecology

Name:		Block/Period:	_ Date:
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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 ~<u>30 to 35 minutes</u> to complete. There will be a review / discussion afterwards requiring you to record corrections <u>AND</u> summarize additional material / information.

Description (-1/2 point for each time the rubric is not followed)	
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
Review: Answers that were incorrect are corrected, in a different color	0 ½ 1
Discussion: 2 OR more summary statements of the additional material / information, in a different color	0 ½ 1
Score:	/ 5

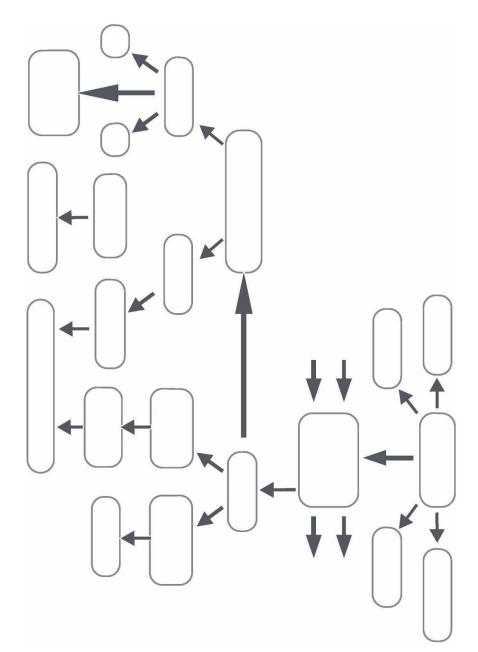
1. Describe the conservation story about the Whooping Crane.

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Page 1 of 7 **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. Define (N) value when evaluating a population.

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- 4. Define Population Density.
- 5. List the 3 ways that a population can be Distributed.
 - i. ______ ii. ______
- 6. Describe Sex Ratios vs Age Structure.



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7. Draw & Explain how the rabbit population changes in the example from the video. Make sure to include how the math is setup.

8.	Define	Carrying	Capacity	(K).
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9. Analyze why reaching Carrying Capacity is not a perfect mathematical relationship.

10. Define Density-Dependent factors.



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11. Define Density-Independent factors.

12. The mathematical constant e is = _____

13. Draw & Describe a J-Shaped curve. (related to the rabbits example in the video)

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14. Draw & Describe an S-Shaped curve. (related to the rabbits example in the video)

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15. Analyze why most populations follow an S-Shaped curve in nature.

16. Define K-Selected species and **Describe** their primary characteristic.

17. Define r-selected species and Describe their primary characteristic.



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18. Describe the Predator-Prey relationship.

19. Describe the 3 types of Survivorship Curves.

i.	Туре I
ii.	Туре II
iii.	Туре III

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