Bozeman AP Environmental Science | Big Idea #1 - Earth Systems & Resources 004 - The Atmosphere

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)	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	
Review: Answers that were incorrect are corrected, in a different color	
Discussion: 2 OR more summary statements of the additional material / information, in a different color	
Score:	/ 5

1. Draw the chemical formula for Ozone, and **describe** what Ozone does in the upper atmosphere.

Your Drawing	Description

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Bozeman Science* AP Environmental Science**

2. Explain what CFCs do to Ozone in the upper atmosphere.

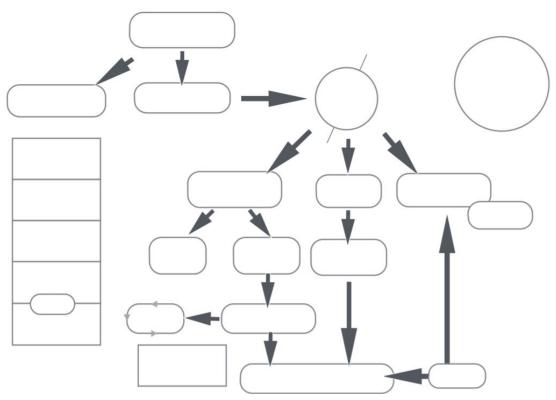
		ve Ozone we get, and	
		CFCs Ozone will return to its original levels around	
5.		, and Ozone can be found at the boundary	
	between the	and the	



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6. 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.



- 7. **Describe** the Troposphere.
- **8. Describe** the Stratosphere.
- **9. Describe** the Mesosphere.



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10. Describe the Thermosphere.

11. Describe the Exosphere.

12. Define the difference between Weather and Climate.

13. Fill out the following table for the primary biome that exists at the latitude listed.

Latitude	Biome
0° (the Equator)	
30°	
60°	

14. Explain why we have Seasons.

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Page 4 of 6 **15. Describe** the *difference* between how light falls on the Earth near the Equator vs the Poles.

16. What two things contribute to the Unequal Heating of the surface of the Earth?

- **17. Draw and Label** a diagram of the Hadley, Ferrell and Polar cells that exist above (or below, they are the same) the Equator.

a. Analyze why we have such wet Biomes at the Equator and at 60° Latitude. (not in the video)

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18. Explain how the Coriolis Effect occurs in Earth's atmosphere.

19.	The combinations of these ce	ells and the Coriolis Effect creates the			
	t	hat we have on our planet			
	·				
20.	Describe how the surface Od	cean Currents are created.			
21.	Deep currents in the ocean a	re due to,	but are also due to		
	abangaa in				
	changes in				
22.	22. Define ENSO (El Niño-Southern Oscillation).				
23.	Fill in the following table with	what is happening during the ENSO	cycle.		
	<i>La Nina</i> Walker				
	Circulation				
	Neutral Walker Circulation				
	El Niño Walker Circulation				

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