Bozeman AP Environmental Science | Big Idea #6 - Pollution
029 - Air Pollution

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
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

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1. **Analyze** what leads to legislation setting controls on air pollution.

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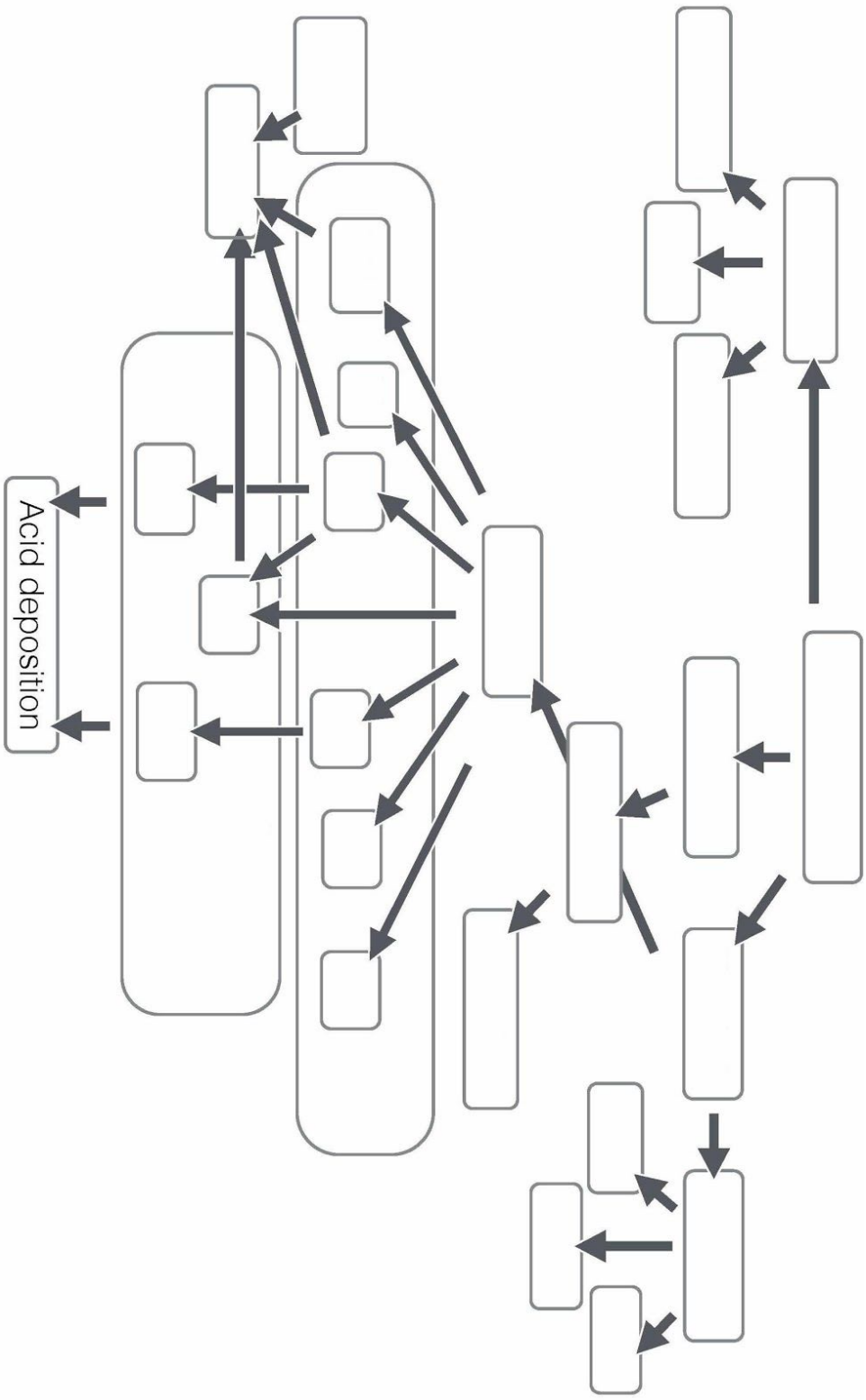
2. Listen to Mr. Anderson describe the various parts of the concept map, and pause after he reveals a new word, and filling in that word.



3. **Define** Primary Pollutants.

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4. **Define** Secondary Pollutants.

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5. Air Pollution can lead to _____, _____, and

_____.

6. **Analyze** why most developed countries do not have high levels of air pollution compared to developing countries.

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7. **Fill-in** the following chart for Primary Pollutants.

Name	Description
Volatile Organic Compounds (VOCs)	
Carbon Monoxide (CO)	
Nitric Oxides (NOx)	
Sulfur Dioxide (SO_2)	
Particulate Matter	
Lead	

8. **Fill-in** the following chart for Secondary Pollutants.

Name	Description
Nitric Acid (HNO_3) & Sulfuric Acid (H_2SO_2)	
Ozone (O_3)	

9. **Draw & Explain** a Temperature Inversion.

10. Explain the process of Smog Formation.

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11. Describe the Clean Air Act of 1970.

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12. Fill-in the following chart for Technologies we use to clean these pollutants out of the air.

Name	Description
Catalytic Converter	
Electrostatic Precipitator	
Wet Scrubber	