

Bozeman AP Environmental Science | Big Idea #1 - Earth Systems & Resources
002 - Environmental Systems

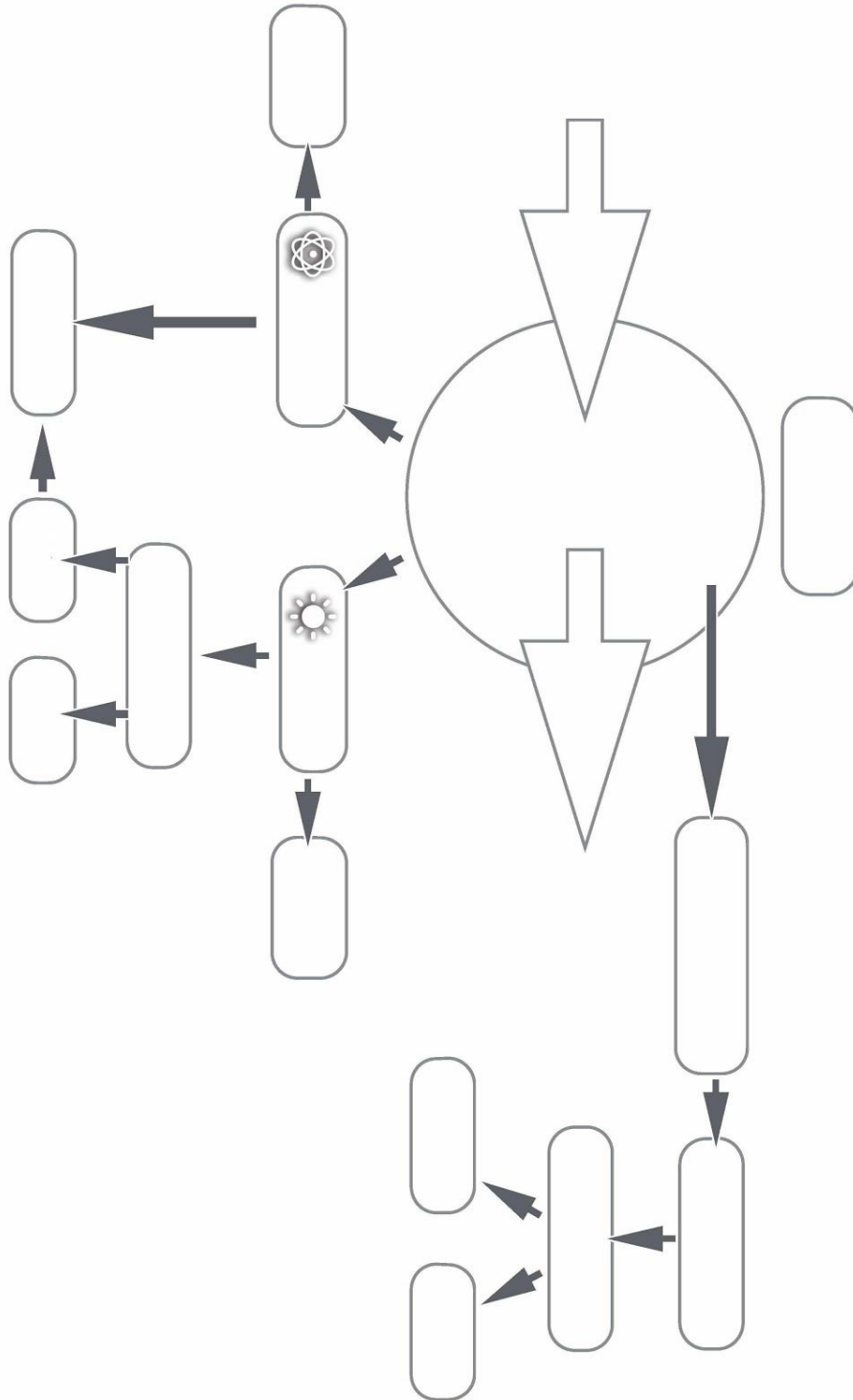
Name: _____ Block/Period: ____ Date: _____

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 what happened to the Aral Sea.

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. **Draw** a diagram of a closed system and an open system, **define** both types of systems.

i. Closed System - _____

ii. Open System - _____

4. **Describe** why all of the atoms in Group 1 (Hydrogen and the Alkali Metals) are highly reactive.

5. **Describe** a property of all atoms in Group 18 (Noble Gasses).

6. **Explain** why Carbon is important to life.



7. What is the majority of life, the oceans, and Earth made of (by mass)? _____

8. **Describe** how the atmosphere different from #7?

9. **Define** energy, and include its unit of measurement.

10. **Describe** the 1st Law of Thermodynamics.

11. **Describe** the 2nd Law of Thermodynamics.

12. Draw & Describe a diagram of Systems Analysis.

13. Define Steady State.

14. Describe the process of a Negative Feedback Loop.

15. Describe the process of a Negative Feedback Loop.

16. Explain one of the Negative Feedback Loops from the video.

