

Bozeman AP Environmental Science | Earth Systems & Resources
006 - Soil & Soil Dynamics

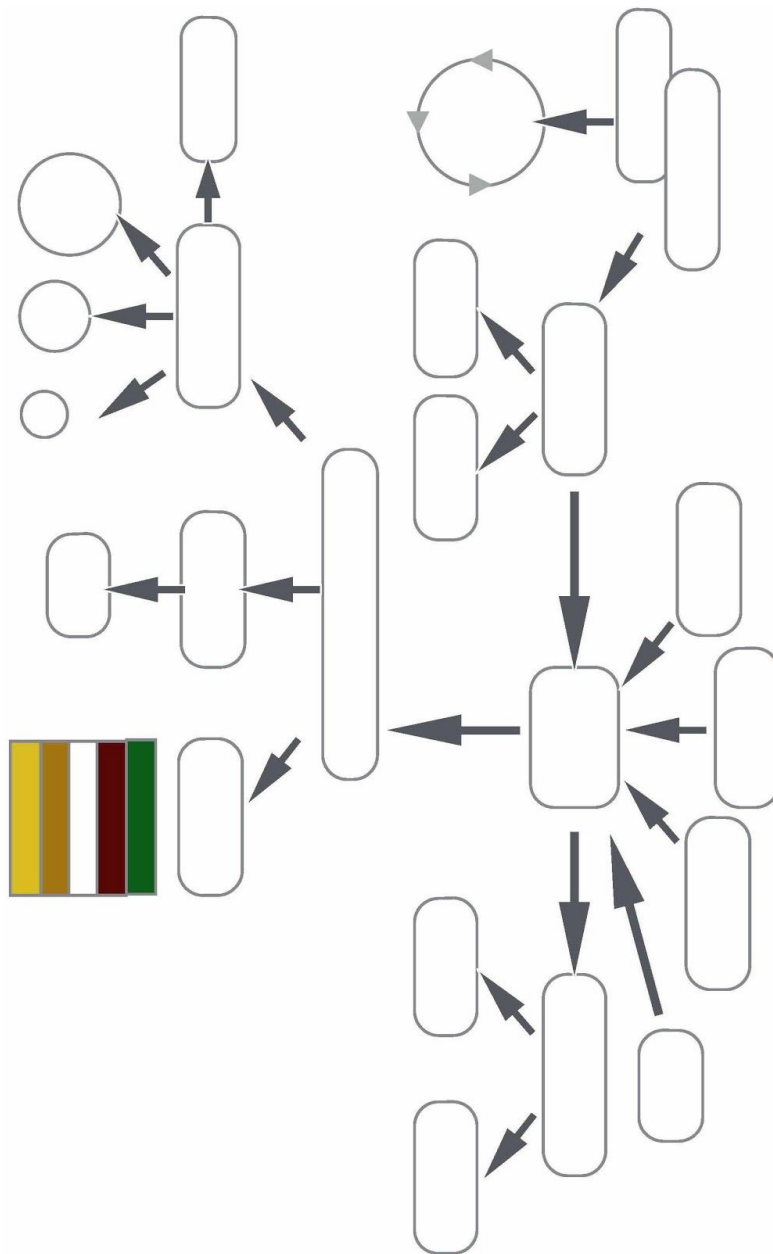
Name: _____ Block/Period: ____ Date: _____

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. **Describe** in general how all soil is made.

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. Describe Physical Weathering.

4. **Describe** Chemical Weathering.

5. **List** the three phases of matter in soils.

i. _____

ii. _____

iii. _____

6. **List & Describe** the soil horizons from the top down.

i. _____ - _____

ii. _____ - _____

iii. _____ - _____

iv. _____ - _____

v. _____ - _____



7. **Describe** the porosity of the different types of soil particles.

a. Sand - _____

b. Silt - _____

c. Clay - _____

8. **Analyze** why we use layers of clay in retaining ponds.

9. **Analyze** why a Loam (20/40/40 mixture) of clay, silt, and sand is the best type of soil for raising most species of plants.

10. **Describe** Cation Exchange Capacity (CEC).

11. **Define** Base Saturation.

12. **Define** Erosion.



13. Define Compaction.

14. Explain the process that can lead to soil Salinization.

15. List the ways that we could still use soil that has become higher in salinity.

i.

ii.

iii.

