Essential Characteristics of Life- Bozeman Science (10:01)

1. What are the 3 characteristics that are conserved in all living things?

2. All living things on the planet fit into one of three Domains. These domains include:

3. All life on Earth uses what molecule as the genetic code? What is the general shape/structure of that molecule?

4. Crick developed the “Central Dogma of Biology”. What is the central dogma? Use these terms: Translation, Replication, Transcription, DNA, Protein, and RNA.

5. All living things metabolize. What is the energy currency of all living things?

6. Mr. Anderson mentioned 3 processes that cells use to make energy. Cells will either use one or all of those processes. What are the 3 processes for making energy?

7. What is the difference between anaerobic and aerobic respiration?

8. All Eukaryotic cells have a _________________.

9. How do scientists explain the formation of the Endomembrane system of Eukaryotic cells?

10. The mitochondria is the powerhouse organelle of the cell. The chloroplast is the photosynthetic organelle within plants. How did scientists figure out that those 2 organelles use to live on their own as a separate organism?