

# AP Biology 005 – Essential Characteristics of Life Video Review Sheet

[www.bozemanscience.com/005-essential-characteristics-of-life](http://www.bozemanscience.com/005-essential-characteristics-of-life)

1. What does all life have?... and what does that mean?
2. What does it mean to be “conserved”?
3. Make and fill in the diagram/tree that he makes with “Life” at the top.

4. What is the genetic code? Where is it found?
5. What does it mean that DNA is “interchangeable”/universal?
6. Diagram (in the box) the “Central Dogma”: (starts with DNA)
7. Concerning metabolism:
  - a. What is the “energy coinage” that all life uses:
  - b. What does it “mean” that all life uses the same/similar metabolic pathways?
8. Considering the evolution of eukaryotic cells:
  - a. How could the endomembrane system been formed?
  - b. What is the evidence for the process of endosymbiosis forming the mitochondria and chloroplast of the eukaryotic cell?

