

# AP Biology Supplemental – Biology Video Review Sheet

<https://paul-andersen.squarespace.com/biology>

1. Biology is the:
2. Big Idea 1: Evolution -
  - a. What did Darwin propose: all life...
  - b. What is macroevolution?
  - c. Darwin came up with a mechanism for evolution called:
  - d. 5 things that can cause evolution are:
  - e. Natural selection allows organisms to become better
3. Big Idea 2: Free Energy –
  - a. Starts with the \_\_\_\_\_ then plants do \_\_\_\_\_ then organisms do respiration that generates \_\_\_\_\_ and eventually all leaves as \_\_\_\_\_
  - b. Define Free Energy:
  - c. Homeostasis: maintaining a stable internal \_\_\_\_\_ using \_\_\_\_\_ mechanisms.
4. Big Idea 3: Information – flow from organism to organism, generation to generation
  - a. Diagram the Central Dogma of Life: DNA
  - b. Genetics: what scientist helped with our early understanding of genetics?
  - c. Responding to our environment through cell \_\_\_\_\_ - an example of information transfer.
5. Big Idea 4: Systems –
  - a. Emergent Properties: properties that weren't there the
  - b. E.O. Wilson is known as the \_\_\_\_\_ of \_\_\_\_\_.