Honors Biology

*Ecology Video #1 History of the Earth Video:*

Use this sheet to guide your notes.

Key words:

* Archaean and Proterozoic Eons
  + Protobionts
  + Prokaryotes
  + Eukaryotes

I think you should be able to explain the difference in the different life forms and discuss how they transitioned into each other.

More Key words:

* Phanerozoic Eon
  + Cambrian Explosion
  + Ordovician Period
  + Devonian Period
  + Carboniferous Period
  + Permian Period

I think you should explain the main events that happened in each period and what caused one period to transition into the next.

Ecology Book Chapter 2 *Reproduction and Adaptation*

Read each section of the book and relate the key words to the big idea. At the end tie the big ideas together and relate them to the video notes above.

Big Idea:

* For a species to continue to exist it must reproduce.

The key words:

* Adaptations
* Reproduction

Another Big Idea:

* Organisms reproduce sexually or asexually.

The key words:

* Asexual reproduction
* Sexual reproduction
* Bianary fission
* Budding
* Parthenogenosis
* Vegetative reproduction

Another Big Idea:

* Traits are passed from parents to offspring during reproduction

The key words:

* Genes

Another Big Idea:

* Each type of reproduction has advantages and disadvantages.

The key words:

* Genetic homogeneity
* Mead’s Milkweed

Another Big Idea:

* Environmental and genetic factors cause variation among individuals in a population.

The key words:

* Mutation
* Recombination

Another Big Idea:

* Populations produce more offspring than the environment can support.

The key word:

* Population

Another Big Idea:

* In any population, some individuals have a better chance of surviving and reproducing than others.

The key words:

* Differential reproduction
* Genetic bottleneck
* Inbreeding
* Translocation

Another Big Idea:

* Natural Selection causes populations to adapt to their environment over time.

The key words:

* Natural selection
* Heredity

The last Big Idea:

* Adaptations help an organism survive in a particular environment.

The key word:

* Adaptations

Now write a paragraph tying the big ideas together.

Now write a paragraph tying the big ideas together with the main points of the Crash Course video.