Introductory Biology

Ecology Book Chapter 4 *Interactions and Organisms*

**Community Ecology Video:**

Big Idea: Predation is the primary force that drives evolution.

The key words:

* Herbivory
* Parasitism
* Predatory Adaptation
* Cryptic Coloration
* Mullerian Mimicry
* Batesian Mimicry

**Book:**

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:

* Organisms compete for limited resources

The key words:

* Interaction
* Competition
* Exploitation
* Mutualism

Another Big Idea:

* Competition affects the growth, survival and reproduction of the organisms involved.

The key words:

* Indirect competition
* Interspecific competition
* Intraspecific competition

Another Big Idea:

* A species’ niche describes its way of life and role in an ecosystem.

The key words:

* Niche
* Fundamental niche
* Realized niche

Another Big Idea:

* Two species cannot have the same niche in an ecosystem.

The key words:

* Competitive exclusion principle
* Resource partitioning

Another Big Idea:

* Exploitation benefits one organism but harms another

The key words:

* Predators
* Herbivores
* Parasites
* Host

Another Big Idea:

* Adaptations help organisms exploit other organisms or avoid being exploited.

The key words:

* Brood parasites
* Warning coloration
* Mimic
* Model
* Batesian mimicry
* Mullerian mimicry

Another Big Idea:

* Commensalism benefits one organism but does not affect another.

The key word:

* Commensalism

Another Big Idea:

* Mutualism benefits each organism that participates in the interaction.

The key words:

* Mutualism
* Symbiosis

Another Big Idea:

* Interactions maintain balance within ecosystems.

The key word:

* Predator-prey cycles

Now write a paragraph tying the big ideas together.

Finally, write a paragraph tying the big ideas of the book together with the big ideas in the video.