Seventh Grade Curriculum Pacing Guide
Stability and Change in Living Systems
Crosscutting Concepts: Patterns, Stability and Change, Systems and System Models
Topics: Biomes, Organism Interdependence, Selective Breeding

12-week Instructional Segment

Anchoring Phenomenon	GSE	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
The meals we choose impact ecosystems and have local and global connections.	**S7L3.c** **S7L4.c** **S7L4.d**	**What Food Would You Choose?**	From *A Framework for K-12 Science Education*: **LS2.A: Interdependent Relationships on Ecosystems** • Organisms and populations of organisms are dependent on their environmental interactions both with other living things and with nonliving factors • In any ecosystem, organisms and populations with similar requirements for food, water, oxygen, or other resources may compete with each other for limited resources, access to which consequently constrains their growth and reproduction. **LS2.C: Ecosystem Dynamics, Functioning, and Resilience** • Ecosystems are dynamic in nature; their characteristics can vary over time. • Disruptions to any physical or biological component of an ecosystem can lead to shifts in all of its populations. **LS4.B: Natural Selection** • Genetic variations among individuals in a population give some individuals an advantage in surviving and reproducing in their environment. • Humans have the capacity to influence certain characteristics of organisms by selective breeding.	• Asking questions and defining problems • Analyzing and interpreting data	By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE: • Selective breeding • Inheritance of traits • Natural selection • Artificial selection • Ecosystem • Biome • Sustainability • Organism interdependence

This instructional segment will connect to the second instructional segment, Structure and Function in Living Systems.