



**Seventh Grade Curriculum Pacing Guide
Structure and Function in Living Systems**

Crosscutting Concepts: Structure and Function; Systems and System Models; Cause and Effect; Scale, Proportion and Quantity; Patterns

Topics: Cell System; Levels of Organization; Body Systems; Sexual and Asexual Reproduction; Inheritance and Variation of Traits;
Selective Breeding

10-week Instructional Segment

Anchoring Phenomenon	GSE	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Some foods are not good for you—allergic reactions	S7L2 a, b, c S7L3 a, b, c	<p>“I can’t eat this food.” (Part 1)</p> <p>“I can’t eat this food, but my sibling can.” (Part 2)</p>	<p>From <i>A Framework for K-12 Science Education</i>:</p> <p>LS1.A: Structure and Function</p> <p>LS1.B: Growth and Development of Organisms</p> <p>LS3.A: Inheritance of Traits</p> <p>LS3.B: Variation of Traits</p> <p>LS4.B: Natural Selection</p> <p>LS4.C: Adaptation</p>	<ul style="list-style-type: none"> ● Asking questions and defining problems ● Developing and using models ● Constructing explanations ● Engaging in argument from evidence 	<p>Background: Do not bring in actual food items for students to examine--only bring in clean food packaging or images of nutrition facts labels from food packaging.</p> <p>By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE.</p> <ul style="list-style-type: none"> ● Cause and effect ● Systems ● Nutrients ● Energy ● Cell structures ● Cells ● Tissues

					<ul style="list-style-type: none">● Organs● Organ (body) systems● Organisms● Genes● Chromosomes● Traits● Inheritance of traits● Genetic variation
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This instructional segment on the structure and function in living systems connects to the diversity of living things and how they can be compared scientifically based on their cell structures, levels of organization, methods of reproduction and obtaining nutrients and/or energy. These characteristics of living things are influential in determining the interdependence of living things on one another and their environment.