

Unit Overview – Hierarchical Organization

<div style="border: 1px solid black; padding: 2px; display: inline-block;">Essential Questions</div>			<input type="checkbox"/> I totally get it <input checked="" type="checkbox"/> I kinda get it <input type="checkbox"/> I don't get it
What Came First: <ul style="list-style-type: none"> • (5th Grade) Explain why some organisms are capable of surviving as a single cell while others require many cells that are specialized to survive. 			
What Comes Next: <ul style="list-style-type: none"> • (High School: Biology) Analyze the classification of organisms according to their evolutionary relationships (including: dichotomous keys and phylogenetic trees). 			
Enduring understanding	Important to know and do		Worth being familiar with
<input type="checkbox"/> Cells are the basic unit of structure in living organisms <input type="checkbox"/> Structures increase in complexity (organelles, cells, tissues, organs, organ systems, organisms) <input type="checkbox"/> Structures contribute to homeostasis in different ways	<input type="checkbox"/> Define the different levels of organization and give examples <input type="checkbox"/> Organize structures of an organism from least complex to most complex <input type="checkbox"/> Compare/contrast the jobs of different levels of organization <input type="checkbox"/> Understand the life processes occur at the cellular and organism level to maintain homeostasis		<input type="checkbox"/> Major organs of animals and their function (heart, brain, kidney, stomach, liver) <input type="checkbox"/> How each level of organization affects homeostasis <input type="checkbox"/> Examples of specialized cells and their jobs <input type="checkbox"/> Organelles associated with each life process and role in homeostasis <input type="checkbox"/> Significance of cellular respiration
Vocabulary to master			
<input type="checkbox"/> Organelles <input type="checkbox"/> Cells <input type="checkbox"/> Tissue	<input type="checkbox"/> Organs <input type="checkbox"/> Organ system <input type="checkbox"/> Organism	<input type="checkbox"/> Homeostasis <input type="checkbox"/> Hierarchical <input type="checkbox"/> Specialized	<input type="checkbox"/> Life processes (digestion, ingestion, cellular respiration, reproduction, regulation, transport, excretion, and photosynthesis—producers only)