

Science Grade 8 Life Science: Cells, Tissues, Organs, and Systems (CS)					
Outcome		1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4-Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
<b>CS8.1</b> I can analyze the characteristics of cells, and compare structural and functional characteristics of plant and animal cells.	Characteristics of cells	<ul style="list-style-type: none"> <li>I can identify some characteristics of cells in single-celled and multicellular plants and animals, <b>with help</b>.</li> </ul>	<ul style="list-style-type: none"> <li>I can identify some <b>characteristics of cells</b> in single-celled and multicellular plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>identify and describe many characteristics</b> of cells in single-celled and multicellular plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can identify and describe many characteristics of cells in single-celled and multicellular plants and animals, and I can <b>express</b> the significance of these characteristics.</li> </ul>
	Comparison of plant and animal cells	<ul style="list-style-type: none"> <li>I can show the structures <b>OR</b> functions of plant <b>OR</b> animal cells.</li> </ul>	<ul style="list-style-type: none"> <li>I can show the structures and functions of <b>either</b> plant <b>OR</b> animal cells.</li> </ul>	<ul style="list-style-type: none"> <li>I can show the <b>similarities and differences in the structures and functions of plant AND animal cells</b>.</li> </ul>	<ul style="list-style-type: none"> <li>I can show the similarities and differences in the structures and functions of plant and animal cells, and I can <b>express my inferences about the importance of such differences</b>.</li> </ul>
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<b>CS8.2</b> Demonstrate proficiency in the use of a compound light microscope to observe plant and animal cells.	<ul style="list-style-type: none"> <li>• I can use a microscope to observe some characteristics of plant and animal cells, <b>with help.</b></li>   <li>• I can draw diagrams of what I see, <b>with a few labels, with help.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can use a microscope <b>to observe some characteristics of plant and animal cells.</b></li>   <li>• I can draw diagrams of what I see, <b>with a few labels.</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>With the proper techniques,</b> I can use a microscope to <b>clearly</b> observe <b>differences in structure</b> between plant and animal cells.</li>   <li>• I can draw <b>clearly labelled diagrams</b> of what I see.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>I can confidently use and manipulate</b> the microscope to <b>clearly</b> observe differences in structure between plant and animal cells.</li>   <li>• I can draw clear and <b>neat</b> labelled diagrams of what I see.</li> </ul>
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<p><b>CS8.3</b> Distinguish structural and functional relationships among cells, tissues, organs, and organ systems in humans and how this knowledge is important to various careers.</p>	Distinguish structural and function relationships	<ul style="list-style-type: none"> <li>I can differentiate among cells, tissues, organs, and organ systems in humans <b>according to their structures OR functions, with help.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can differentiate among cells, tissues, organs, and organ systems in humans <b>according to their structures OR functions.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can explain how cells, tissues, organs, and organ systems in humans are related <b>according to their structures AND functions.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>compare and contrast cells</b>, tissues, organs, and organ systems in humans are related <b>according to their structures AND functions.</b></li> </ul>
	Importance to careers	<ul style="list-style-type: none"> <li>I can explain how the knowledge of cells, tissues, organs, and organ systems is valuable to <b>ONE</b> science-and-technology-based career, <b>with help.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can explain how the knowledge of cells, tissues, organs, and organ systems is valuable to <b>ONE</b> science-and-technology-based career.</li> </ul>	<ul style="list-style-type: none"> <li>I can explain how the knowledge of cells, tissues, organs, and organ systems is valuable to <b>a few</b> science-and-technology-based careers.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>compare</b> the knowledge of cells, tissues, organs, and organ systems needed in <b>a few</b> science-and-technology-based careers.</li> </ul>
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<p><b>CS8.4</b> Analyze how the interdependence of organ systems contributes to the healthy functioning of the human body.</p>		<ul style="list-style-type: none"> <li>I can identify how the functions of the human body depend on individual organ systems, <b>with help.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>identify how the functions of the human body depend on individual organ systems.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>describe how the healthy functioning of the human body depends on individual organ systems working together.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>create an action plan that focuses on the interdependence of organ systems</b> to promote the healthy functioning of the body.</li> </ul>

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