

**Alignment of *Chlamydomonas* lab activity topics with the NGSS Life Science Disciplinary Core Ideas and with the 12 principles of Plant Biology from ASPB (grey highlighted numbers).**

<b>LS1 From Molecules to Organisms: Structures &amp; Processes</b>	<b>ASPB Principles</b>	<b>CHLAMYDOMONAS Lab Activity Topic Numbers in the Information Sheets</b>
LS1A Structure and Function	#1, 3, 4, 5, 6, 7, 10	1,2,4,5,9
LS1B Growth and Development of Organisms	#1, 2, 4, 5, 6, 10, 11	1,2,4,5,6,7,8,9
LS1C Organization for Matter & Energy Flow in Organisms	#2, 3, 5, 10	1,6,7,8,10
LS1D Information Processing [Signaling]	#9, 11	4,5,6,7,8,10
<b>LS2 Ecosystems: Interactions, Energy, and Dynamics</b>	<b>ASPB Principles</b>	
LS2A Interdependent Relationships in Ecosystems	#1, 8, 11, 12	10
LS2B Cycles of Matter and Energy Transfer in Ecosystem	#1, 2, 3	10
LS2C Ecosystem Dynamics, Functioning, and Resilience	#1, 9, 12	
LS2D Social Interactions and Group Behavior	#6, 12	
<b>LS3 Heredity: Inheritance and Variation of Traits</b>	<b>ASPB Principles</b>	
LS3A Inheritance of Traits	#3, 4, 7	2,3,4,5,6,7,8,9
LS3B Variation of Traits	# 6, 7	2,3,4,5,6,7,8,9
<b>LS4 Biological Evolution: Unity and Diversity</b>	<b>ASPB Principles</b>	
LS4A Evidence of Common Ancestry	#3, 4	4,5,6,7,8,9
LS4B Natural Selection	#3, 4, 7, 9, 11, 12	
LS4C Adaptation	#3, 4, 7, 9, 11, 12	1,4,5,6,7,8
LS4D Biodiversity and Humans	#1, 6, 12	