



THE NGSS LIFE SCIENCE DISCIPLINARY CORE IDEAS ALIGN WITH THE 12 PRINCIPLES OF PLANT BIOLOGY FROM ASPB

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

There is strong alignment with plant biology in the Physical Science and Earth & Space Science DCIs, too.

Teach with plants.

Integrate disciplinary core ideas. Explore cross-cutting concepts. Apply scientific practices.