

NGSS Standards & Distance Learning from the Missoula Butterfly House & Insectarium



Distance learning programs from the Missoula Butterfly House & Insectarium are designed to accommodate a range of ages and grade levels. With that age range in mind we have identified the *Crosscutting Concepts, Science and Engineering Practices* and *Disciplinary Core Ideas* that each program supports.

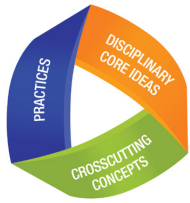
Creative Creatures and Powerful Pollinators however, do have grade level specific NGSS standards that they address.

Creative Creatures addresses K-LS1-1: “Use observations to describe patterns of what plants and animals, including humans, need to survive.”

Powerfull Pollintars addresses NGSS: 2-LS2-2: “Develop a simple model that mimics the structure and function of an animal in dispersing seeds or pollinating plants”



	Creative Creatures	Powerful Pollinators
Crosscutting Concepts		
Patterns		X
Cause & Effect	X	X
Scale Proportion and Quantity		
Systems and Systems Models	X	X
Energy and Matter		
Structure and Function	X	X
Stability and Change		
Science and Engineering Practices		
Asking Questions and Defining Problems	X	
Developing and Using Models		X
Planning and Carrying out Investigations		X
Analyzing and Interpreting Data	X	X
Using Mathematics and Computational Thinking		
Constructing Explanations and Designing Solutions	X	X
Engaging in Argument from Evidence		
Obtaining, Evaluating, and Communicating Information		
Disciplinary Core Ideas		
LS1: From Molecules to Organisms: Structures and Processes	X	X
LS2: Ecosystems: Interactions, Energy, and Dynamics	X	X
LS3: Heredity: Inheritance and Variation of Traits		X
LS4: Biological Evolution: Unity and Diversity		X



NGSS Standards & Distance Learning from the Missoula Butterfly House & Insectarium



	Super Spiders	Millipedes vs Centipedes	Beetlemania	Little Things, Big Jobs
Crosscutting Concepts				
Patterns	X	X	X	X
Cause & Effect				
Scale Proportion and Quantity				
Systems and Systems Models	X	X		
Energy and Matter		X		
Structure and Function	X	X	X	X
Stability and Change				
Science and Engineering Practices				
Asking Questions and Defining Problems	X	X	X	X
Developing and Using Models	X			
Planning and Carrying out Investigations				
Analyzing and Interpreting Data				
Using Mathematics and Computational Thinking				
Constructing Explanations and Designing Solutions				
Engaging in Argument from Evidence				
Obtaining, Evaluating, and Communicating Information				
Disciplinary Core Ideas				
LS1: From Molecules to Organisms: Structures and Processes	X	X	X	X
LS2: Ecosystems: Interactions, Energy, and Dynamics	X	X	X	X
LS3: Heredity: Inheritance and Variation of Traits	X			
LS4: Biological Evolution: Unity and Diversity	X		X	