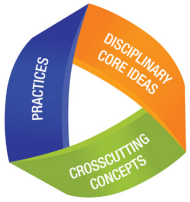


NGSS Standards & Distance Learning from the Missoula Butterfly House & Insectarium

MISSOULA BUTTERFLY HOUSE & INSECTARIUM

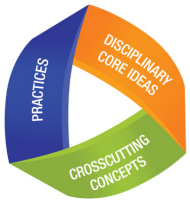
Distance learning programs from the Missoula Butterfly House & Insectarium are designed to accommodate a range of ages and grade levels. With that age range in mind we have identified the *Crosscutting Concepts*, *Science and Engineering Practices* and *Disciplinary Core Ideas* that each program supports.

Creative Creatures and Bug Biomimicry however, 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."

Bug Biomimicry addresses 1-LS1-1: "Use materials to design a solution to a human problem by mimicking plant and animal structures and functions that help them survive, grow and meet their needs"

	Creative Creatures	Bug Biomimicry
Crosscutting Concepts		
Patterns		
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	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	
LS3: Heredity: Inheritance and Variation of Traits		
LS4: Biological Evolution: Unity and Diversity		



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

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	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	