Standards:

NGSS Alignment

Life Science Expo 2018

Dimension 1

Scientific and Engineering Practices:

- Asking questions (for science) and defining problems (for engineering)
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking

Dimension 2

Crosscutting Concepts:

- Patterns
- Cause and effect: Mechanism and explanation
- Scale, proportion, and quantity
- Systems and system models
- Energy and matter: Flows, cycles, and conservation
- Structure and function
- Stability and change

Disciplinary Core Ideas:

- 3-LS4-3: Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.
- 3-LS4-4: Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.
- 3-LS1-1: Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.

- 3-LS3-1: Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.
- 3-LS3-2: Use evidence to support the explanation that traits can be influenced by the environment.
- 3-LS4-2: Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.
- 4-LS1-1: Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.
- 4-LS1-2: Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.
- 5-LS1-1: Support an argument that plants get the materials they need for growth chiefly from air and water.
- 5-LS2-1: Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

__ Organisms and Ecosystems Activities __ Health and Nutrition _Adaptations and Inheritance

	3-	3	3-	3-	3	3-	3	3	4-	4-	5-	5-
	LS	-	LS	LS	-	LS	-	-	LS	LS	LS	LS
	1-	L	3-	3-	L	4-	L	L	1-	1-	1-	2-
	1	S	1	2	S	2	S	S	1	2	1	1
		2			4		4	4				
		-			-		-	-				
		1			1		3	4				
Magical Microbes												
							х					
Gone Fishin' in Lake Tahoe							x					

Tahoe Plankton!									x
On the Ground and Beneath the Surface									х
Bioramas			х		х				
Food Chain Aim									х
In Search of Pollen	x		х			х			
Living Together				х		x			x
Planting Party						x		x	
Pumpkins and Butterflies and Frogs, Oh My!	x								
Train your Brain							x		
Think Fast!							x		
Confusing the Senses							х		
Optical Art							х		
Brain Waves							х		
Name that Organ						х			
A Close up of You						х			

Play to your Strength							x		
A Bone of your Own							х		
Don't Hold Your Breath							х		
Your Amazing Heart							х		
Germy Transfer									
Rethink your Drink									
Fruit and Veggie DNA	х								
DNA Recipes		х							
Crazy Traits		х							
Tree of Life	х								
Natural Selection in Action				х	х	х			
Brilliant Bird Beaks			х	х	х				
Blubber Glove		х	х	х	х				
Flower Engineers			х	х					
Seeds on the Move							х		

|--|