

## How These Activities Support the Next Generation Science Standards

	Performance Expectations	Science and Engineering Practices								NGSS Crosscutting Concepts						
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7
<b>Introductory Activities</b>																
IntroActivity 1 - Exploring Roles Used in POGIL Teams			X		X				X							
IntroActivity 2 - Inferring Experimental Design from Data Tables		X	X	X	X	X	X		X							
<b>Ecology-related activities</b>																
LSActivity 1 - How Do Living Things Interact?	MS-LS2-2	X	X	X	X		X	X	X	X			X	X		
LSActivity 2 - Interactions Between Pests and Crops	MS-LS2-2	X	X		X		X	X	X							X
<b>Organism structure/development, genetics, and evolution</b>																
LSActivity 3 - How Does the Amount of Food Affect an Organism's Growth?	MS-LS1-5, MS-LS2-1	X	X		X	X	X	X	X	X			X			X
LSActivity 4 - How Do Body Cells Reproduce? (Mitosis)	MS-LS-3.2	X	X		X			X	X						X	
LSActivity 5 - Why Aren't We All Clones? (Meiosis)	MS-LS3-2	X	X		X	X	X		X							X
LSActivity 6 - Cookies and Proteins: When Instructions Go Wrong	MS-LS-3-1	X	X		X		X		X				X		X	
LS Activity 7 - Looking Closer at Making Proteins		X	X		X		X		X						X	X
LSActivity 8 and 8-NoE - Seeing the Past: Imagining How Species Change Over Time	MS-LS4-1, MS-LS4-2	X	X		X		X	X	X							X
LSActivity 9 -The Fossil Record: How Have Animals Changed Over Earth's Long History?	MS-LS4-1	X	X		X		X		X						X	X
LSActivity 10 and 10-NoE - Factors That Influence the Process of Evolution	MS-LS1-4, HS-LS1-4	X	X		X	X	X	X	X			X				
LSActivity 11 and 11-NoE - Animal Arms Races	MS-LS1-4, MS-LS4-4, HS-LS4-2	X	X		X		X		X			X			X	
LSActivity 12 - Comparing Early Development of Organisms	MS-LS4-3	X	X		X		X	X	X			X	X			X

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Science and Engineering Practices	
1	Asking questions (for science) and defining problems (for engineering)
2	Developing and using models
3	Planning and carrying out investigations
4	Analyzing and interpreting data
5	Using mathematics and computational thinking
6	Constructing explanations (for science) and designing solutions (for engineering)
7	Engaging in argument from evidence
8	Obtaining, evaluating, and communicating information

Crosscutting Concepts	
1	Patterns
2	Cause and effect
3	Scale, proportion, and quantity
4	Systems and system models
5	Energy and matter
6	Structure and function
7	Stability and change