

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
Introductory Activities																
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		X	X	X			
Earth Science Activities																
ESSActivity 1 - You Rock! How Are Different Kinds of Rocks Made?	MS-ESS2-1	X	X		X		X	X	X		X	X		X		
ESSActivity 2 - Earth's Layered Structure	MS-ESS1-3	X	X		X	X	X	X	X		X	X	X	X		X
ESSActivity 3 - Movement Inside the Earth	MS-ESS2-2	X	X		X	X	X	X	X		X		X	X		
ESS Activity 4 - To Shake or Not to Shake? Exploring How Earthquakes Behave		X	X		X		X		X							
ESSActivity 5 - Where are Tectonic Plate Boundaries Located?	MS-ESS2-2	X	X		X		X	X	X		X	X				X
ESSActivity 6 - Shuffling the Continents	MS-ESS2-3	X	X		X		X		X		X	X	X	X		X
ESSActivity 7 - Forecasting Natural Catastrophes	MS-ESS3-2	X	X		X		X	X	X		X		X			
ESSActivity 8 - Human Impacts on Drinking Water Quality	MS-ESS3-4	X	X		X		X		X		X	X		X		X
Space Science Activities																
ESSActivity 9 - Comparing Objects in the Solar System	MS-ESS1-3	X	X		X	X	X	X	X		X	X	X	X		X
ESSActivity 10 - Life Cycles of Stars	MS-ESS1-3	X	X		X	X	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

