

How These Activities Support the Next Generation Science Standards

POGIL HS Biology Activity number - name	Performance Expectations	Science and Engineering Practices							
		1	2	3	4	5	6	7	8
1 – Safety First			X				X		
2 – Scientific Inquiry		X	X		X		X	X	X
3 – Experimental Variables		X	X	X	X	X	X	X	X
4 – Analyzing and Interpreting Scientific Data		X	X		X	X	X	X	X
5 – Properties of Water	HS-PS1-3 HS-PS2-6	X	X		X		X	X	X
6 – Biological Molecules	HS-LS1-6	X	X				X	X	X
7 – Prokaryotic and Eukaryotic cells	HS-LS1-2	X	X		X		X	X	X
8 – Organelles in Eukaryotic Cells	HS-LS1-2	X	X		X	X	X	X	X
9 – Cell Size	HS-LS1-2	X	X		X	X	X	X	X
10 – Membrane Structure and Function	HS-LS1-2	X	X		X		X	X	X
11 – Transport in Cells	HS-LS1-2	X	X		X	X	X	X	X
12 – What’s in a Leaf? (Photosynthesis)	HS-LS1-5	X	X		X		X	X	X
13 – Cellular Respiration	HS-LS1-7	X	X		X	X	X	X	X
14 – Photosynthesis and Respiration	HS-LS1-5 HS-LS1-7	X	X		X	X	X	X	X
15 – The Cell Cycle	HS-LS1-4	X	X		X	X	X	X	X
16 – Mitosis	HS-LS1-4	X	X		X		X	X	X
17 - Meiosis	HS-LS3-1,2	X	X		X		X	X	X
18 – DNA Structure and Replication	HS-LS1-1	X	X		X	X	X	X	X
19 – Evidence for Evolution	HS-LS3-1 HS-LS4-1	X	X		X	X	X	X	X
20 – Biological Classification	HS-LS2-7	X	X		X	X	X	X	X
21 – Evolution and Selection	HS-LS4-1,2,3,4,5	X	X		X	X	X	X	X
22 – Nutrient Cycles	HS-LS2-3	X	X		X		X	X	X
23 – Ecological Relationships	HS-LS2-2,6	X	X		X	X	X	X	X
24 – Biomes	HS-ESS2-7	X	X		X	X	X	X	X
25 – Energy Transfer in Living Organisms	HS-LS2-4	X	X		X	X	X	X	X
26 – Ecological Pyramids	HS-LS2-4	X	X		X	X	X	X	X

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27 – Succession	HS-LS2-2,6,7	X	X		X		X	X	X
28 – Population Distribution	HS-LS2-2	X	X		X	X	X	X	X
29 – Population Growth	HS-LS2-1,6	X	X		X	X	X	X	X
30 – Spread of Pathogens	HS-LS1-2	X	X		X		X	X	X
31 – The Circulatory System	HS-LS1-2	X	X		X		X	X	X

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