

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 – Fundamentals of Experimental Design		X	X	X	X	X	X	X	X
3 – Organizing Data		X	X		X	X	X	X	X
4 – Significant Digits and Measurement		X	X		X	X	X	X	X
5 – Significant Zeroes		X	X		X	X	X	X	X
6 – Classification of Matter		X	X		X	X	X	X	X
7 – Isotopes	HS-PS1-8	X	X		X	X	X	X	X
8 – Ions	HS-PS1-1	X	X		X	X	X	X	X
9 – Average Atomic Mass	HS-PS1-8	X	X		X	X	X	X	X
10 – Coulombic Attraction	HS-PS2-4	X	X		X	X	X	X	X
11 – Electric Energy and Light	HS-PS1-1	X	X		X	X	X	X	X
12 – Electron Configuration	HS-PS1-1	X	X		X	X	X	X	X
13 – Cracking the Periodic Table Code	HS-PS1-1	X	X		X	X	X	X	X
14 – Periodic Trends	HS-PS1-1	X	X		X	X	X	X	X
15 – Naming Ionic Compounds	HS-PS1-1	X	X		X	X	X	X	X
16 – Polyatomic Ions	HS-PS1-1	X	X		X	X	X	X	X
17 – Naming Molecular Compounds	HS-PS1-1	X	X		X	X	X	X	X
18 – Naming Acids	HS-PS1-2	X	X		X	X	X	X	X
19 – Molecular Geometry	HS-PS1-1	X	X		X	X	X	X	X
20 – Types of Chemical Reactions	HS-PS1-2	X	X		X	X	X	X	X
21 – Relative Mass and the Mole	HS-PS1-2	X	X		X	X	X	X	X
22 – Mole Ratios	HS-PS1-2	X	X		X	X	X	X	X
23 – Limiting and Excess Reactants	HS-PS1-1	X	X		X	X	X	X	X
24 – Gas Variables		X	X		X	X	X	X	X
25 – Saturated and Unsaturated Solutions		X	X		X	X	X	X	X
26 - Solubility		X	X		X	X	X	X	X

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27 - Molarity		X	X		X	X	X	X	X
28 - Calorimetry	HS-PS3-1	X	X		X	X	X	X	X
29 – Bond Energy	HS-PS1-4	X	X		X	X	X	X	X
30 - Equilibrium	HS-PS1-6	X	X		X	X	X	X	X
31 – Acids and Bases	HS-PS1-2	X	X		X	X	X	X	X
32 – Strong vs. Weak Acids	HS-PS1-2	X	X		X	X	X	X	X
32 – Calculating pH		X	X		X	X	X	X	X
33 – Oxidation and Reduction	HS-PS1-2	X	X		X	X	X	X	X
34 – Activity Series	HS-PS1-2	X	X		X	X	X	X	X
35 - Batteries	HS-PS1-2	X	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