

# Year At a Glance: Honors Physical Science

2016-2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 1	1	Beginning Science skills including Lab safety, review of lab equipment and lab practices.	<b>Cpalms. Org</b> for all topics. <b>Florida Student.org:</b> all topics <b>PhET.com simulation:</b> Forces and Motion: Basics. <b>Bozemanscience.com:</b> "Energy, Work & Power"
	2-3	SC.N.1.1-1.7, N.2.1,-2.5, N.4.1-4.2: Nature and Practice of Science	
	4-7	SC.912.P.12.1-5, N.3.3: Newton's Laws, Scalars & Vectors, Kinetics.	
	8-9	SC.912.P.10.1-10.3: Energy, Work & Power	
	Week	Major Concepts / Topics	Possible Resources
Quarter 2	1-3	SC.912.P.8.1, SC.912.P.10.4, 10.5, 10.14: Energy transfer, concepts of conductors & insulators.	<b>PhET.com simulation:</b> Ohm's Law, Resistance in a Wire.
	4-6	SC.912.P.10.18, 10.21, 12.7: Waves	
	7-9	SC912.P.10.15: Electrical circuits, relationships amongst current, voltage, resistance & power.	
	Week	Major Concepts / Topics	Possible Resources
Quarter 3	1-4	SC.912.P.8.2, P.12.10,11, P.12.10, P.10.6: Physical/chemical changes, endo/exothermic reactions, energy diagrams, gases.	<b>Bozemanscience.com:</b> Matter, A Tour of the Periodic Table, Physical & Chemical Changes.
	5-9	SC.912.P.8.3, 8.4, N.3.1, 3.5, P.8.5: Atomic Theory & history and the Periodic Table.	
	Week	Major Concepts / Topics	Possible Resources
Quarter 4	1-4	SC.912.P.8.7, 8.8, 12.12: Writing/naming Chemical Compounds, Types of reactions.	<b>PhET.com simulation:</b> Acid-Base Solutions,pH scale, Balancing Chemical Equations. <b>Bozemanscience.com:</b> Nuclear Reactions

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

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	5	SC.912.P.8.11: Acid/Bases
	6	SC.912.P.10.10-10.12: Chemical and Nuclear Reactions including half life.
	7-9	SC.912. L. 18.12, 18.7, 18.8, E.7.1: Properties of Water, Photosynthesis/Cellular Respiration, Biogeochemical Cycles.

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