

Physics – Year at a Glance

2016-2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 1	1-2	Beginning Science skills including Lab safety, review of lab equipment and lab practices, SC.912.N.1.1-N.3.4 – Nature/Practice of Science Review of skills	Cpalms. Org for all topics. Florida Student.org: all topics
	3-9	SC.912.P.12.1-12.3: Kinematics-Motion	
Quarter 2	Week		Possible Resources
	1-3	SC.912.P.12.4, SC.912.E.5.6, SC.912.E.5.2: Gravitational force and impact on relationships between objects – Newton’s and Kepler’s Laws.	Khan Academy for all topics. pHet Colorado: Good simulations.
	4-7.5	SC.912.P.12.5: Linear momentum, conservation of momentum, impulse.	
	7.5-9	SC.912.P.10.3: Work, power.	
Quarter 3	Week		Possible Resources
	1	SC.912.P.10.1 SC.912.P.8.1, SC.912.P.10.5: States of matter, energy and the impact of energy on matter.	
	2-4.5	SC.912.P.10.2, SC.912.P.10.4: Thermal energy transfer, Law of Conservation of energy, heat/cooling curves.	
	4.5-9	SC.912.P.10.20, SC.912.P.10.18, SC.912.P.10.21: electromagnetic waves, electromagnetism, wave calculation, Doppler.	
Quarter 4	Week		Possible Resources
	1-3	SC.912.P.10.22: Optics: Ray diagrams/lenses/mirrors	
	4-9	SC.912.P.10.10, SC.912.P.10.13, SC.912.P.10.15, SC.912.P.10.14: electricity and relationships between variables, circuitry.	

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.