

Year at A Glance: Advanced 7th Grade Science 2018-2019

	Week	Major Concepts / Topics	Possible Resources
Quarter 1	1	Beginning Science skills including Lab safety, review of lab equipment and lab practices.	Bozemanscience.com: Scientific Method Phet.colorado.edu: Energy Forms/ Changes Cpalms. Org & Floridastudent.org: for all topics
	2-4.5	SC.7.N.1.1-N.1.6, N.3.1,3.2: Nature of Science/Laws Theories	
	4.5-9	SC.7.P.11.1-11.4, SC.912.P.10.1, 10.5: Energy transformations/conservation of energy, flow of heat & changes associated with heat flow.	
Quarter 2	Week	Major Concepts / Topics	Possible Resources
	1-2	SC.7.P.10.1, N.3.2: Wave properties/electromagnetic spectrum	You Tube: The electromagnetic spectrum: http://www.youtube.com/watch?v=kfS5Qn0wn2o
	3-5	SC.7.P.10.2/10.3: Wave movement, Light behavior.	
6-9	SC.7.E.6, SC.912.E.6.1, 6.2.Earth's layers/rock cycle and surface/subsurface events.		
Quarter 3	Week	Major Concepts / Topics	Possible Resources
	1-3.5	SC.7.E.6.5/7, SC.912.E.6.3: Plate tectonics/Continental Drift	Phet.colorado.edu: Plate Tectonics Amoeba Sisters, You tube: DNA
	3.5-5	SC.7.E.6.4/6.3: Earth's age and evidence that supports geological change	
5-9	SC.7.L.6.1-16.4, SC.912.L.16.2, 16.16: DNA/heredity/genetics/mitosis/meiosis		
Quarter 4	Week	Major Concepts / Topics	Possible Resources
	1-4	SC.7.L.15.1-3, SC.912.L.15.13: Evolution/Natural Selection	Bozemanscience.com: Behavior/Natural Selection Bozemanscience.com: Speciation & Extinction
5-9	SC.7.L.17.1-3, SC.912.L.17.6: Ecosystems/Interactions within SC.912.L.15.6, 17.9: Distinguishing characteristics of domains/kingdoms		

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.