2019-2020 6th Grade Science (Earth)

1st Quarter	Week 1 - 2 August 12 - 23	Week 3 - 5 August 26 – September 13	Week 6 – 9 September 16 – October 11
	Introduction to Nature of Science (NOS) **Unit 1 in text**	**Weathering, Erosion, Deposition & Landforms**	**Earth's Structures**
	Nature of Science: Lab background and expectations, tools to be used and how to use them, how to think like a scientist. Lab Notebook introduced	**Unit 8 in text** **Big Idea: Earth Structures** *Standards:* SC.6.E.6.1 (physical & chemical weathering, erosion, and deposition); SC.6.E.6.2 (landforms) *NOS* – define a problem and models	**Unit 6 in text** **Big Idea: Earth Structures** *Standards:* SC.7.E.6.1 (layers of the Earth); SC.7.E.6.2 (rock cycle); SC.7.E.6.5 (plate tectonics); SC.7.E.6.7 (heat flow) *Advanced:* SC.912.E.6.2 (connect, identify and explain Earth's features); SC.912.E.6.1 (describe & differentiate the interactions of the Earth's layers, recognized the importance of seismic wave data); SC.912.E.6.3 (development of plate tectonic theory, origin of Earth's features from plate tectonics, use models) *NOS* – define a problem, identify variable, scientific methods

2nd Quarter	Week 10 – 11 October 15 – October 25	Week 12 – 17 October 28 – December 13	Week 18 Dec.16 - 19
	Earth's History	**Energy in the Earth System**	
	Unit 7 in text **Big Idea: Earth Structures** *Standards:* SC.7.E.6.3 (measure Earth's age); SC.7.E.6.4 (Earth's evolution due to natural processes) *NOS*- scientific methods	**Unit 10 in text** **Big Idea: Earth Systems & Patterns** *Standards:* SC.6.E.7.4 (Earth's spheres); SC.6.E.7.9 (atmosphere as a protector); SC.6.E.7.1 (heat transfer); SC.6.E.7.5 (sun's energy drives global patterns-air, water, land); SC.6.E.7.3 (weather driven by global patterns seen in measurable terms) *Advanced:* SC.912.E.7.3 (describe the interactions between the spheres); SC.912.P.10.4 (heat is the energy that drives state of matter changes); SC.912.E.7.5 (models used to predict weather); SC.912.E.7.6 (differentiate how severe weather forms) *NOS*- models, scientific theories	**Review & Semester Exam**

3rd Quarter	Week 19 – 22 January 7 - 31	Week 23 – 24 February 3 - 14	Week 25 – 27 February 18 – March 6	Week 28 March 9 -
	Weather & Climate	**Human Impact**	**The Universe**	
	Unit 11 in text **Big Idea: Earth Systems & Patterns** *Standards:* SC.6.E.7.4 (Review-spheres); SC.6.E.7.2 (apply the water cycle); SC.6E.7.3 (Review-global patterns-connect to water cycle) **Lessons 4 and 5 are NOT ASSESSED** SC.6.E.7.5 (review sun but apply to weather & climate); SC.6.E.7.6 (differentiate weather & climate)	**Unit 9 in text** **Big Idea: Earth Structures** *Standard:* SC.7.E.6.6 (identify human impact and how it leads to weathering, erosion, & deposition)	**Unit 2 in text** **Big Idea: Earth in Space & Time** *Standards:* SC.8.E.5.1 (distance); SC.8.E.5.2 (contents of the Universe); SC.8.E.5.3 (distinguish the relationship between astronomical bodies); SC.8.E.5.5 (describe stars)	**Unit 3 in text** **Big Idea: Earth in Space & Time**

4th Quarter	Week 29 - 32 March 9 – April 17	Week 33 - 35 April 20 – May 8	Week 36 – 37 May 11 - 22	Week 38 May 26 - 29
	The Solar System	**Earth, Moon, & Sun**	**Space Exploration**	**EOC**
	Unit 3 in text cont. *Standards:* SC.8.E.5.8 (solar system models); SC.8.E.5.4 (gravity's role) (supplement with SC.8.P.8.2 -apply how gravity works); SC.8.E.5.6 (models of solar properties and describe); SC.8.E.5.3 (relationship between astronomical bodies - review); SC.8.E.5.7 (compare & contrast the properties of the objects in the solar system) *Advanced*: SC.912.E.5.4 (describe the impact of the Sun as the energy source of the Earth in relation to the physical properties of the Sun) *NOS*- models, change in scientific knowledge	**Unit 4 in text** **Big Idea: Earth in Space & Time** *Standard:* SC.8.E.5.9 (seasons, phases of the moon, tides, eclipse, position of moon, sun, earth)	**Unit 5 in text** **Big Idea: Earth in Space & Time** *Standards:* SC.8.E.5.11 (identify and compare the EM characteristics); SC.8.E.5.10 (assess technology in science/space) **LESSON 3 – NOT ASSESSED** (SC.8.E.5.12 – summarize economy effects from space travel to FL)	**EOC Review/Test**