**Unit: Earth's Systems:** 

## **Desired Results Performance Expectations: Transfer** Meaning **ENDURING UNDERSTANDINGS: Crosscutting Concepts** 5-PS2-1 Support an argument that the Students will understand that... gravitational force exerted by Earth on objects is directed down. Cause and effect relationships are routinely identified and used to explain change. • Natural objects exist from the very small to the immensely large. • **5-ESS1-1** Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth. Meaning **5-ESS1-2** Represent data in graphical displays Acquisition **Science and Engineering Practices** to reveal patterns of daily changes in length **Disciplinary Core Ideas** Students will be skilled at... and direction of shadows, day and night, and Students will know... 1. support an argument with evidence, the seasonal appearance of some stars in the • The gravitational force of Earth acting data, or a model. night sky. 2. A system can be described in terms of on an object near Earth's surface pulls that object toward the planet's center. its components and their interactions. **5-ESS2-1** Develop a model using an example The sun is a star that appears larger 3. Describe and graph quantities such as to describe ways the geosphere, biosphere, and brighter than other stars because it area and volume to address scientific hydrosphere, and/or atmosphere interact. is closer. Stars range greatly in their questions. 4. Represent data in graphical displays distance from Earth. 5-ESS2-2 Describe and graph the amounts The orbits of Earth around the sun and (bar graphs, pictographs and/or pie • and percentages of water and fresh water in of the moon around Earth, together charts) to reveal patterns that indicate various reservoirs to provide evidence about with the rotation of Earth about an relationships. the distribution of water on Earth. axis between its North and South 5. poles, cause observable patterns. 5-ESS3-1 Obtain and combine information These include day and night; daily about ways individual communities use changes in the length and direction of science ideas to protect the Earth's resources shadows; and different positions of

Evidence		
Evaluation Criteria	Assessment Evidence	
	PERFORMANCE TASK(S):	
	OTHER EVIDENCE: McMillan McGraw-Hill Science, Gizmos, Mobymax	
	Unit assessment	
Learning Plan		
Summary of Key Learning Events and Instruction		