Middle School Earth Space Science (6th grade) Space Systems	Links
Standard:	
• **MS-ESS1-1.** Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons. •	MS-ESS1-1
• **MS-ESS1-2.** Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.	MS-ESS1-2
• **MS-ESS1-3.** Analyze and interpret data to determine scale properties of objects in the solar system.	MS-ESS1-3
21st Century Learning Expectations: • Hinsdale students will communicate through various means • Hinsdale students will be able to solve problems	Link for 21st Century Learning Expectations

Enduring Understandings (cross cutting concepts): • Patterns can be used to identify cause-and-effect relationships. (MS-ESS1-1) • Time, space, and energy phenomena can be observed at various scales using models to study systems that are too large or too small. (MS-ESS1-3) • Models can be used to represent systems and their interactions. (MS-ESS1-2) • Engineering advances have led to important discoveries in virtually every field of science and scientific discoveries have led to the development of entire industries and engineered systems. (MS-ESS1-3) • Science assumes that objects and events in natural systems occur in consistent patterns that are understandable through measurement and observation. (MS-ESS1-1),(MS-ESS1-2)	
Learning Competencies (engineering practices)	**Essential Questions (core ideas)**
Students will be able to: (NGSS Science and Engineering practices) • Develop and use a model to describe phenomena. (MS-ESS1-1),(MS-ESS1-2) • Analyze and interpret data to determine similarities and differences in findings. (MS-ESS1-3)	• What are space systems? • How do space systems effect Earth?
Performance Task Sample/Resources: NSTA My Solar System NSTA Exploring Lunar & Solar Eclipses	