Course: Sixth Grade			Designated Six Weeks: 6th six weeks		
Unit: Space Exploration			Days to teach: 20 Days		
TEKS	**Guiding Questions/ Specificity**	**Assessment**	**Vocabulary**	**Instructional Strategies**	**Resources/ Weblinks**
Space (6.11) Earth and space. The student understands the organization of our solar system and the relationships among the various bodies that comprise it. The student is expected to: (A) describe the physical properties, locations, and movements of the Sun, planets, Galilean moons, meteors, asteroids, and comets; (B) understand that gravity is the force that governs the motion of our solar system; and ***(Supporting Standard)***	**Guiding Questions** Which planets are related in size and why? What is the elemental composition of the sun? What did the discovery of the Galilean moons prove? What impact did the space travel have on space exploration? What future plans does the United States have for manned space missions?	The sun is mainly composed of which element? A.Sulfur B.Oxygen C.Nitrogen **D.Hydrogen** Most asteroids orbit the sun between A.the sun and Mercury. B.Earth and Mars. **C.Mars and Jupiter.** D.Uranus and Neptune.	Astronomy Force Mass Gravity Weight Spring Scale Newton (N) Solar System Orbit Revolution Rotation Meteorites Comets Asteroids Rocket Space Shuttle Space Probe Sputnik I Galileo Light-Year Project Mercury Project Gemini Apollo Program Sky Lab International Space Station	**Lab Activities** Asterisk*Denotes Required Labs *Can you Planet? *Simple Science – Investigating Mass vs. Weight Astonishing Planetary Discovery A Spaced Out Family	Pearson Hall: Science Explorer Grade 6; 2002 Curriculum Binder Curriculum Binder Curriculum Binder Curriculum Binder

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(C) describe the history and future of space exploration, including the types of equipment and transportation needed for space travel.	**Specificity** Discuss Equipment used for Space Exploration including Mercury, Gemini, Shuttle, and International Space Station programs Explain the characteristics of the Planets, Gallilean Moons, Comets, Stars, etc. and the relationship of gravity as the force that governs their motion	_____ was the first scientist to use a telescope to look at objects in the sky. **A.Galileo** B.Copernicus C.Dalton D.Newton	Shuttle Program	The Solar System and the Forces Behind It Planet Impact "When We Left Earth" (6 Part Series) **ELPS:** 2F: Multimedia 2G: Identification of Planet Characterisitcs 3E: Group Work http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html	Curriculum Binder Gravity: http://amazing-space.stsci.edu/eds/overviews/explorations/impact.php.p=Teaching%2Btools@,eds,tools,%3EGravity@,eds,tools,topic,gravity.php United Streaming http://player.discoveryeducation.com/index.cfm?guidAssetId=C9BAF8E1-957A-4E56-A0F3-4CD989559FE9&blnFromSearch=1&productcode=US Satellites and Probes

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7th grade prep Suggested topics: Chemistry: elements & compounds Physical and chemical change Energy transformation Measurement Scientific Theory	What are some physical properties used to classify matter? What (SI) metric units measure mass, volume, distance and temperature? What steps should you follow, when designing an experiment? **Specificity** Discuss heredity in regards to dominant and recessive traits Describe the uses of the scientific method	Which of the following tools would be used to measure 5 ml of chemical A? A. Erlenmeyer flask B. Beaker **C. Graduated cylinder** D. Test tube E. Design and implement experimental investigations Identify heredity traits that dictate characteristics of organisms.	Metric System Meter Liter Gram Kilo Milli Centi Genetics Genes Heridity Traits Punnet Square Recessive Trait Dominant Trait Hypothesis Data	Metric Olympics *Gene Man Lab Heredity Heredity Myth Busters Scientific Method Practice :Student Peer Review Sheet	Curriculum Binder Curriculum Binder United Streaming ”Genes, Genetics, & DNA” United Streaming “The Molecular Basis of Heredity” United Streaming: http://player.discoveryeducation.com/index.cfm?guidAssetId=330AA7C7-A36A-4C90-BCA6-203C28FDA7ED&blnFromSearch=1&productcode=US

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	Describe in detail the steps in the scientific method Practice measurements in the science lab			**ELPS:** 1F: Heredity Notes 2G: Comprehension Strategies http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074a.html	