Grade 7 Beginning with School Year 2010-2011 Science TEKS Available at Space Center Houston

Texas Essential Knowledge and Skills	Related Exhibit at Space Center Houston
Demonstrate safe practices during laboratory and field investigations as outlined in the Texas Safety Standards (7.1).	**Kids Space Place** **NASA Tram Tours**
Plan and implement comparative and descriptive investigations by making observations, asking well-defined questions, and using appropriate equipment and technology (7.2).	**Kids Space Place** **Part Task Trainers (PTT's)** **NASA Tram Tours**
Design and implement experimental investigations by making observations, asking well-defined questions, formulating testable hypotheses, and using appropriate equipment and technology (7.2).	**Kids Space Place** **NASA Tram Tours**
Collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers (7.2).	**Kids Space Place** **Part Task Trainers (PTT's)** **NASA Tram Tours**
Analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends (7.2).	**Kids Space Place** **NASA Tram Tours**
In all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student (7.3).	**Kids Space Place** **Starship Gallery** **NASA Tram Tours**
Relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content (7.3).	**Part Task Trainers (PTT's)** **Internet Blast-Off Stations** **Starship Gallery** **NASA Tram Tours**

	BLAST-OFF! Theatre
Use appropriate tools to collect, record, and analyze information, including life science models, hand lens, stereoscopes, microscopes, beakers, Petri dishes, microscope slides, graduated cylinders, test tubes, meter sticks, metric rulers, metric tape measures, timing devices, hot plates, balances, thermometers, calculators, water test kits, computers, temperature and pH probes, collecting nets, insect traps, globes, digital cameras, journals/notebooks, and other equipment as needed to teach the curriculum (7.4).	**Kids Space Place** **Part Task Trainers (PTT's)**
Contrast situations where work is done with different amounts of force to situations where no work is done such as moving a box with a ramp and without a ramp, or standing still (7.7).	**Kids Space Place** **Part Task Trainers (PTT's)** **Manned Maneuvering Unit Simulator**
Analyze the characteristics of objects in our solar system that allow life to exist such as the proximity of the Sun, presence of water, and composition of the atmosphere (7.9).	**Voyage Solar System Walk** **Part Task Trainers (PTT's)**
Identify the accommodations, considering the characteristics of our solar system that enabled manned space exploration (7.9).	**Voyage Solar System Walk** **Part Task Trainers (PTT's)**