Grade 8 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 (8.1).	**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 (8.2).	**Kids Space Place** **Part Task Trainers (PTT's)** **NASA Tram Tours**
Design and implement comparative and experimental investigations by making observations, asking well-defined questions, formulating testable hypotheses, and using appropriate equipment and technology (8.2).	**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 (8.2).	**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 (8.2).	**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 (8.3).	**Kids Space Place** **Starship Gallery** **NASA Tram Tours**
Use models to represent aspects of the natural world such as an atom, a molecule, space, or a geologic feature (8.3).	**Starship Gallery** **ISS Exhibit**
Relate the impact of research on scientific thought and society, including the	**Part Task Trainers (PTT's)**

history of science and contributions of scientists as related to the content (8.3).	**Internet Blast-Off Stations** **Starship Gallery** **NASA Tram Tours** **BLAST-OFF! Theatre**
Use appropriate tools to collect, record, and analyze information, including lab journals/notebooks, beakers, meter sticks, graduated cylinders, anemometers, psychrometers, hot plates, test tubes, spring scales, balances, microscopes, thermometers, calculators, computers, spectroscopes, timing devices, and other equipment as needed to teach the curriculum (8.4).	**Kids Space Place** **Part Task Trainers (PTT's)** **NASA Tram Tours**
Demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion (8.6).	**Kids Space Place** **Part Task Trainers (PTT's)** **Manned Maneuvering Unit Simulator**
Demonstrate and predict the sequence of events in the lunar cycle (8.7).	**Starship Gallery** **Part Task Trainers (PTT's)**
Describe components of the universe, including stars, nebulae, and galaxies, and use models such as the Herztsprung-Russell diagram for classification (8.8).	**Starship Gallery** **Part Task Trainers (PTT's)**