

## ***High School Physics TEKS Available at Space Center Houston***

<b>Texas Essential Knowledge and Skills</b>	<b>Related Exhibit at Space Center Houston</b>
Demonstrate safe practices during field and laboratory investigations (1A).	<b>Kids Space Place NASA Tram Tours</b>
Plan and implement experimental procedures including asking questions, formulating testable hypotheses, and selecting equipment and technology (2A).	<b>Kids Space Place Part Task Trainers (PTT's) NASA Tram Tours</b>
Make quantitative observations and measurements with precision (2B).	<b>Kids Space Place Part Task Trainers (PTT's) NASA Tram Tours</b>
Organize, analyze, evaluate, make inferences, and predict trends from data (2C).	<b>Kids Space Place Part Task Trainers (PTT's) Manned Maneuvering Unit Simulator</b>
Communicate valid conclusions (2D).	<b>Kids Space Place Part Task Trainers (PTT's) NASA Tram Tours</b>
Read the scale on scientific instruments with precision (2F).	<b>Kids Space Place Part Task Trainers (PTT's)</b>
Analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information (3A).	<b>Kids Space Place Starship Gallery Part Task Trainers (PTT's) NASA Tram Tours</b>
Evaluate the impact of research on scientific thought, society, and the environment (3C).	<b>Part Task Trainers (PTT's) Starship Gallery NASA Tram Tours</b>
Describe the connection between physics and future careers (3D).	<b>Part Task Trainers (PTT's) Starship Gallery NASA Tram Tours</b>

Research and describe the history of physics and contributions of scientists (3E).	<b>Part Task Trainers (PTT's)</b> <b>Starship Gallery</b> <b>Spacesuits on Display</b> <b>BLAST-OFF! Theatre</b> <b>NASA Tram Tours</b>
Analyze examples of uniform and accelerated motion including linear, projectile, and circular (4B).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>Manned Maneuvering Unit Simulator</b>
Demonstrate the effects of forces on the motion of objects (4C).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>Manned Maneuvering Unit Simulator</b>
Identify and describe motion relative to different frames of reference (4E).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>Manned Maneuvering Unit Simulator</b>
Observe and describe examples of kinetic and potential energy and their transformations (5B).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>Manned Maneuvering Unit Simulator</b> <b>Shuttle Main Engine Mock-Up</b>
Demonstrate the conservation of energy and momentum (5D).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>Manned Maneuvering Unit Simulator</b>
Identify the influence of mass and distance on gravitational forces (6A).	<b>Kids Space Place</b>
Examine and describe a variety of waves propagated in various types of media and describe wave characteristics such as velocity, frequency, amplitude, and behaviors such as reflection, refraction, and interference (8A).	<b>Kids Space Place</b>
Interpret the role of wave characteristics and behaviors found in medicinal and industrial applications (8C).	<b>Kids Space Place</b>