

## **Grade 5 Beginning with School Year 2010-2011 Science TEKS Available at Space Center Houston**

<b>Texas Essential Knowledge and Skills</b>	<b>Related Exhibit at Space Center Houston</b>
Demonstrate safe practices and the use of safety equipment as described in the Texas Safety Standards during classroom and outdoor investigations (5.1).	<b>Kids Space Place</b> <b>NASA Tram Tours</b>
Describe, plan, and implement simple experimental investigations testing one variable (5.2).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>NASA Tram Tours</b>
Ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology (5.2).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b> <b>NASA Tram Tours</b>
Collect information by detailed observations and accurate measuring (5.2).	<b>Kids Space Place</b> <b>NASA Tram Tours</b>
Analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence (5.2).	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b>
Communicate valid conclusions in both written and verbal forms (5.2).	<b>Kids Space Place</b> <b>NASA Tram Tours</b>
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 (5.3).	<b>Kids Space Place</b> <b>Starship Gallery</b>
Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists (5.3).	<b>Spacesuits on Display</b> <b>Part Task Trainers (PTT's)</b> <b>Starship Gallery</b>

	<b>BLAST-OFF! Theatre</b> <b>NASA Tram Tours</b> <b>Internet Blast-Off Station</b>
<p>Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, pan balances, triple beam balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices, including clocks and stop-watches; and materials to support observations of habitats or organisms such as terrariums and aquariums (5.4)</p>	<b>Kids Space Place</b> <b>Part Task Trainers (PTT's)</b>
<p>Classify matter based on physical properties, including mass, magnetism, physical state (solid, liquid, and gas), relative density (sinking and floating), solubility in water, and the ability to conduct or insulate thermal energy or electric energy (5.5).</p>	<b>Kids Space Place</b>
<p>Demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand (5.5).</p>	<b>Kids Space Place</b> <b>Space Shuttle Orbiter Mock-Up</b> <b>Part Task Trainers (PTT's)</b> <b>Manned Maneuvering Unit Simulator</b>
<p>Demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand (5.5).</p>	<b>Kids Space Place</b>
<p>Explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy (5.6).</p>	<b>Kids Space Place</b>
<p>Demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky (5.8).</p>	<b>Starship Gallery</b> <b>Living In Space Show</b>
<p>Identify and compare the physical characteristics of the Sun, Earth, and Moon (5.8).</p>	<b>Starship Gallery</b> <b>BLAST-OFF Theatre</b> <b>Part Task Trainers (PTT's)</b>

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