

Station Information for "Our Solar System - An Interactive Journey"

STATION	Equipment for Station	Focus of Station	Interactivity	Key Points of Station	Next-gen Science Standards Alignment
Digital Globe Theater	24" digital globe display on large octagonal base	The Earth is interconnected and ever-changing	Walk around the 360° video globe and view the various whole-earth animations from multiple angles/locations.	1. Global weather systems 2. Plate tectonics 3. Ocean currents	MS-ESS2.B: Plate Tectonics and Large Scale Systems Interactions MS-ESS3.B: Natural Hazards
Moon Hemisphere	27" diameter moon model with LED lights, recessed in circular counter with touchscreen	History of lunar exploration missions	Press buttons on the touchscreen to view stats, watch mission footage, and illuminate LEDs on the moon model that correspond to each lunar mission.	1. Dates of previous missions to the moon 2. Landing sites 3. Facts about surface (topography, soil, temperature, etc.) that affected planning of early lunar missions	1-ESS1.A: The Universe and its Stars
Solar System Model	Scale model of the planets with 6' diameter inflatable sun (can be hung from above)	Size/distance of planets	Get up close and personal with each of the planets to view their actual size differences, then stand under the sun to grasp its immense size.	1. Comparative size of planets 2. Comparative distances of planets 3. Travel time between planets with today's technology	MS-ESS1-3: Analyze and interpret data to determine scale properties of objects in the solar system.
3D Globe Display	3D globe display in upright kiosk	Movement of the celestial bodies (this video)	Use the "play" button to start the unique 3D video that depicts the "celestial sphere" as well as each of the planets in our solar system.	1. Planets were discovered by observing stars changing position in the night sky 2. The sun is the center of the solar system 3. The sun's enormous size and resulting gravity holds the planets in the solar system.	MS-ESS1.A: The Universe and It's Stars MS-ESS1.B: Earth and the Solar System
Touch Table	46" multi-user touchtable	Planet images and statistics	Click, swipe and pinch to explore photos, videos and statistics for each of the planets... or take a quiz to test your knowledge.	1. Mass of each planet 2. Rotation of each planet 3. Gravity of planet	MS-ESS1.A: The Universe and its Stars 5-ESS1.A: The Universe and its Stars MS-ESS1.B: Earth and the Solar System
Solar Observatory	Video wall with four 4K-resolution displays	Types of solar events	Watch the stunning, up-close video clips of spectacular solar events, displayed on the video wall.	1. Sun spot 2. Solar Flare 3. Prominence	5-ESS1.A: The Universe and its Stars HS-ESS1-1: Earth's Place in the Universe
Be an Astronaut	Portrait-style AR mirror display	Careers in space exploration	Step in-front of the large AR mirror to see yourself outfitted in a NASA space suit, then move around to get a feel for how astronauts feel in space.	1. Space exploration is an exciting career 2. Gravity on the moon	MS-ESS1-2: Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.