

Science On a Sphere – Educator Resource Guide

Show Title: *Adventure To Space*

Recommended Grade Range: 6th – 8th

Presentation Time: 20 minutes



	SEEd Standards Focus Alignment
Strand 6.1	Structure and motion within the Solar System.
Strand 7.2	Changes to Earth over time.
Strand 8.4	Interactions with natural systems and resources.

Summary:

"Adventure To Space" is designed to supplement a wide range of standards related to the human exploration of space including aspects of Earth, the Moon, and Mars. Students will select and explore topics related to working in each unique environment and the resources needed to sustain future crewed missions. Students will be able to explore NASA programs such as the International Space Station (ISS), the Apollo moon program, the Mars Desert Research Station (based in Hanksville, Utah), and NASA's CHAPEA mission.

Data visualizations explored in this topic:

- The Journey Begins
- Teaming Up to Prepare
- Getting Into Space
- The Effects and Impacts of Distance
- Living Away from Earth
- Challenges of Human Spaceflight
- Rewards of Human Spaceflight

Science language used or introduced	Chemical reaction, distance, force, gases, gravity, lander, model, moon, orbit, orbiter, planets, properties, radiation, resource, rover, scale, satellite, solar system, satellite, static electricity.
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