

	View Constellations in STARLAB Portable Planetarium	Story Telling	Build a Playground Planetarium
Objectives	Students K-3 will be introduced to astronomy and star constellations. Students will be able to locate easy-to-find seasonal constellations and will identify, explore and investigate the celestial objects in their night sky. Students will learn about Greek stories that have been told about the different groups of stars.	Students will draw upon their own experiences and apply their knowledge of science, math, social studies and the arts to create their own constellations and myth or story about their group of stars.	Students will use teamwork to design and create their own planetarium using the school playground Geo Dome climber. Students will draw their constellations and share their stories.
Supplies/Materials	<p>You will need:</p> <ul style="list-style-type: none"> •Portable STARLAB Planetarium (or substitute short videos about what’s up in the night sky in place of STARLAB found at http://www.nasa.gov/multimedia/podcasting/whatsup_index.html) •Constellations cylinder for STARLAB •Constellations curricula for STARLAB •Pointer •Flashlight •Internet access 	<p>You will need:</p> <ul style="list-style-type: none"> •STARLAB/Homemade Planetarium •Blank paper to draw/create story about their own constellation & clipboard •Pencils, Pens, Markers or colors •Copy of <u>Story Time</u>, from the <u>Story of the Stars</u> Educator Guide, co-developed by NASA and Navajo collaborators. 	<p>You will need:</p> <ul style="list-style-type: none"> •School playground Geo Dome climber •Black poster paper • Different color chalk (bright colors work best) •Copy of <u>Stories in the Sky</u>, from the <u>Story of the Stars</u> Educator Guide, co-developed by NASA and Navajo collaborators.
Teacher Instruction	Sitting on the floor and watching the night sky change above their heads is the hook that gets kids excited about astronomy and outer space. Using the Constellations curricula allows students to learn the Greek mythology stories about the different star constellations. In lieu of the STARLAB, students can enjoy short videos about what’s up in their night sky by viewing the “What’s up in the night sky” NASA podcasts.	Students love to tell stories about themselves and their lives. Students will create their own constellations and “show and tell” their own stories.	Students enjoy covering the school playground Geo Dome climber with black poster paper and drawing their constellations on the inside of the dome. Taking it down and sharing their stories is a lot of fun, too.
Extensions	Engage students with the STARLAB and Constellations curricula or night sky podcast referenced above. Can also visit the following website and viewing short videos of images taken by the Hubble Telescope about tonight’s night sky found at http://hubblesite.org/explore_astronomy/tonights_sky/archive). Extend the lesson by comparing Navajo star constellations and Navajo star patterns with activities found in the STARLAB <u>Navajo Skies</u> cylinder curricula.	Engage students in story telling with their own stories about their new constellations. Extend the lesson by reading <u>Story Time</u> and learn about Navajo star patterns and their stories. Activities include making your own planetarium.	Engage students by creating a planetarium on playground GeoDome climber and drawing their constellations on the inside of the walls. Extend the lesson by viewing <u>Stories in the Sky</u> ; make a Hogan planetarium and complete constellation activities.