

School Programs by Season

Season	Grade & Standard	Title and Description	Program Details	Location
Fall (Aug-Nov)	Pre-K ECOT 2.1,10.1, 14.1-16.1, 20.1	Apples, Apples, Apples! Children learn about an apple's life cycle through kinesthetic movement, tactile creative exploration, and press apples into juice.	Duration: 1–2 classes: ~1 hour 3 classes: ~1.5 hours Transportation: <i>Ask about transportation funding.</i>	Los Alamos Nature Center or other outdoor location
Fall (Oct-Nov)	Kinder K-ESS3-1	Patterns and Numbers in Nature Students use their senses and active play to describe how patterns and colors help living things survive.	Duration: 1–2 classes: ~1 hour 3 classes: ~1.5 hours Days Offered: Tuesdays & Thursdays Transportation: <i>Ask about transportation funding.</i>	Los Alamos Nature Center or other outdoor location
Fall (Aug-Nov)	1st 1-LS3-1	Traits on the Trail-Ecology Explorations Students will find evidence of how young plants and animals are like, but not exactly like, their parents.	Duration: 1 class: ~1 hr	Trail near school, school playground, or local park
Fall (Aug-Nov)	2nd 2-LS2-2	Seeds on the Move-Ecology Explorations Students will discover the ways plants have adapted to disperse their seeds.	Duration: 1 class: ~1 hr	Trail near school, school playground, or local park
Fall (Aug-Nov)	3rd 3-LS4-3 3-LS4-4	Thrive in the Dry-Ecology Explorations (DPU partner program) Students will explore trails near their school to	Duration: 1 class: ~1 hr	Trail near school, school playground, or local park



		investigate plant adaptations that help them to thrive in the high desert environment.		
Fall (Aug-Nov)	4th 4-PS3-2 4-ESS3-1	Where's the Energy? (DPU partner program) Students will learn about renewable and non-renewable sources of electricity in Los Alamos county as well as ways to conserve energy. Students will perform their own energy conversions with a bike generator as well as other hands-on activities.	Duration: 1-3 classes: ~2.5 hrs <i>LAPS Schools only.</i> Transportation: <i>Bus transportation funding available</i>	Los Alamos Nature Center or your school site.
Fall (Aug-Oct)	5th 5-ESS3-1	Bird Banding Students will observe scientists banding birds as well as practice science skills by banding and collecting data on a mock bird. This is an immersive field science experience that includes a pre-visit to the classroom for an introduction as well as teacher-led post-field trip activities.	Duration: Pre-lesson: ~1 hr In-field: ~2.5 hrs Field Days Offered: Tuesdays & Thursdays <u>Transportation:</u> <i>Bus transportation funding available</i> Bus transportation scheduled by PEEC for LAPS.	Alamo Boundary Trailhead, Bandelier NM <i>Transportation funding provided.</i>
Fall (Sept-Oct)	6th MS-ESS2-2	Rocks, Rifts and Volcanos History of the Valles Caldera formation and geology of the Jemez Mountains. Teachers will be sent a pre-lesson prior to the field trip to help establish prior knowledge before the field trip.	Duration: 1-3 classes: ~2 hrs <u>Transportation:</u> <i>Ask about transportation funding.</i>	Valles Caldera National Preserve
Winter (Dec-Mar)	Pre-K ECOT 2.1,10.1,14 .1-16.1,	Day and Night on Earth Explore the difference between night and day in the planetarium and participate in hands-on activities to learn why we see day and night.	Duration: 1-2 classes: ~1 hr 3 classes: ~1.5 hrs	Los Alamos Nature Center Planetarium



	20.1		<u>Transportation:</u> <i>Ask about transportation funding.</i>	
Winter (Dec-Mar)	Kinder K-2-ETS1-2	Shapes in Space "Fly to the Planets in our Solar System!" Students will explore how the shape of an object influences its ability to move when pushed or pulled.	Duration: 1-2 classes: ~1 hr 3 classes: ~1.5 hrs <u>Transportation:</u> <i>Ask about transportation funding</i>	Los Alamos Nature Center Planetarium
Winter (Dec-Mar)	1st 1-ESS1-1	Seasonal Changes in the Night Sky Discover how our Sun moves across the sky and learn about different constellations that appear during different seasons.	Duration: 1-3 classes: ~2 hrs <u>Transportation:</u> <i>Ask about transportation funding</i>	Los Alamos Nature Center Planetarium
Winter (Dec-Mar)	2nd 2-ESS1	Out of this World Weathering Explore the surfaces of our Moon, Earth, and Mars to learn why erosion and weathering are different on each surface.	Duration: 1-3 classes: ~2 hrs <u>Transportation:</u> <i>Ask about transportation funding</i>	Los Alamos Nature Center Planetarium
Winter (Dec-Mar)	3rd 3-PS2-3 3-PS2-4	Making Magnets (DPU partner program) Students learn where the electricity in Los Alamos County comes from, and why it is important to conserve electricity through a hands-on activity using electricity to make a magnet and vice versa.	Duration: 1 class:~ 1 hr <i>LAPS schools only.</i>	School classroom
Winter (Dec-Mar)	3rd 3-LS4-3	Space Exploration Students visit the LANC planetarium to learn about	Duration:	Los Alamos Nature Center Planetarium



	3-LS4-4	space exploration: Apollo/Artemis, ISS 360, the Mars rovers, and the James Webb telescope.	1 class: 1 hour 2-3 classes: ~1.5 hrs <u>Transportation:</u> <i>Ask about transportation funding.</i>	
Winter (Dec-Mar)	4th 4-PS3-2 4-ESS3-1	Where's the Energy? (DPU partner program) Students will learn about renewable and non-renewable sources of electricity in Los Alamos county as well as ways to conserve energy. Students will perform their own energy conversions with a bike generator as well as other hands-on activities.	Duration: 1-3 classes: ~2.5 hrs <i>LAPS schools only.</i> <u>Transportation:</u> <i>Transportation funding covered.</i>	Los Alamos Nature Center or your school site
Winter (Dec-Mar)	4th 4-LS1-1	Animals in Winter Snowshoe Hike Students will learn how to safely snowshoe in a group and will use observation skills to notice evidence of animals living in the area.	Duration: 1-3 classes: ~2 hrs <u>Transportation:</u> <i>Ask about transportation funding.</i>	Valles Caldera National Preserve
Winter (Dec-Mar)	4th LARL.4.NM.3a	Stories in the Sky Students visit the LANC planetarium for a presentation on constellations and their associated myths from different cultures around the world.	Duration: 1-3 classes: ~2 hours <u>Transportation:</u> <i>Ask about transportation funding.</i>	Los Alamos Nature Center Planetarium
Winter (Dec-Mar)	5th 5-ESS2-2	Snow and Water on Earth (DPU partner program) This is a two-day program that begins with a pre-lesson in the classroom, where students learn the importance of water conservation and the distribution of water on Earth. Day two takes place in the field where students learn the role of snow in nourishing our streams and aquifer	Duration: Pre-lesson: ~1 hr In-field: ~2 hrs <i>Depending on snow levels snowshoeing can</i>	Valles Caldera National Preserve or trail near school



		through different experiments while snowshoeing.	<i>be substituted for a winter hike and location may change.</i> <u>Transportation:</u> <i>Transportation funding covered.</i>	
Winter (Dec-Mar)	5th 5-ESS1-1	The Spaces between Space Students visit the LANC planetarium to learn about distances between planets in our Solar System and to certain stars followed by an activity to discover the relative sizes of the planets in our Solar System.	Duration: 1-3 classes: ~2 hrs <u>Transportation:</u> <i>Ask about transportation funding.</i>	Los Alamos Nature Center Planetarium
Winter (Dec-Mar)	6th MS-ESS1-1	Space Systems and Eclipses Students visit the LANC planetarium to learn about lunar phases, eclipses, and gravity. Students build a model to understand the difference between lunar and solar eclipses.	Duration: 1-3 classes: ~2.0 hrs <u>Transportation:</u> <i>Ask about transportation funding.</i>	Los Alamos Nature Center Planetarium
Winter (Dec-Mar)	6th MS-ESS2-4	Water Cycle Snowshoe Hike (DPU partner program) This is a two-day program that begins with a lesson in the classroom where students will focus on pathways of the hydrologic cycle in their watershed. Day two while in the field, students will measure snowpack, and snow water equivalent, and learn why snowflakes have different patterns and sizes.	Duration: Pre-lesson ~1 hr In-field: 1-2 classes: ~2 hrs <i>Depending on snow levels snowshoeing can be substituted for a winter hike and location may change.</i> <u>Transportation:</u> <i>Transportation funding covered.</i>	Valles Caldera National Preserve or trail near school



Spring (Apr-May)	Pre-K ECOT 2.1,10.1,14 .1-16.1, 20.1	Everything under the Sun! (DPU partner program) Discover what solar energy can do and learn how animals regulate their body temperature externally. Learn about ways to conserve energy in their own lives.	Duration: 1–2 classes: ~1 hr 3 classes: ~1.5 hrs <u>Transportation:</u> <i>Transportation funding covered.</i>	Los Alamos Nature Center or other outdoor location
Spring (Apr-May)	Pre-K ECOT	First Signs of Spring Who's waking up? Focus on the unique life cycle of Mourning Cloak butterflies.	Duration: 1–2 classes: ~1 hr 3 classes: ~1.5 hrs <u>Transportation:</u> <i>Ask about transportation funding.</i>	Los Alamos Nature Center or other outdoor location
Spring (Apr-May)	Kinder PS-3-1 PS-3-2 K-ESS3-3	Soil, Bugs and Flowers! (DPU partner program) Students will investigate how the Sun warms up different Earth surfaces and learn ways to cool Earth's surface. They will also discover soil animals that are our soils' underground heroes.	Duration: 1-3 classes: ~2 hrs Transportation: covered by DPU	Los Alamos Nature Center or other outdoor location
Spring (Apr-May)	1st 1-PS4-4	Light and Sound Communication-Ecology Exploration Students will become familiar with sounds animals on the Pajarito Plateau make. Students will then use natural and recycled materials to build communication devices to communicate among themselves.	Duration: 1 class: ~1 hr	Trail near school, school playground, or local park
Spring (Apr-May)	2nd 2-ESS1-1	Land of Change - Ecology Exploration Students will learn how land changes and some processes that can cause a landscape to change.	Duration: 1 class: ~1 hrs	Trail near school, school playground, or local park



Spring (Apr-May)	3rd 3-LS4-3 3-LS4-4	Bears, Bobcats, and Deer Oh My! – Ecology Exploration Students will explore trails near their school to investigate how specific structures in animals' skulls enable them to survive and thrive in particular habitats.	Duration: 1 class: ~1 hr	Trail near school, school playground, or local park
Spring (Apr-May)	4th	Water Festival Sponsored by the Department of Public Utilities. This is a day for 4th graders to engage in hands-on activities provided by community partners to learn about water conservation. No registration required, PEEC staff will contact fourth-grade teachers.	Duration: All Day <i>LAPS schools only.</i> <u>Transportation:</u> <i>Transportation provided.</i>	Fuller Lodge
	5th 5-ESS2-2	Flow In, Flow Out (DPU partner program)-No/Low Snow Alternative A two-session DPU-sponsored program pairing a PEEC classroom lesson on water resources of the Pajarito Plateau with a field trip to the county's new White Rock water reclamation facility, including a guided plant tour and a walk overlooking the Rio Grande.	Duration: ~2 hours/2-3 classes <u>Transportation</u> <i>Transportation provided.</i>	School classroom and White Rock Water Resource Reclamation Facility
	6th 6-ESS2-4	Shallow and Deep Aquifers in Los Alamos (DPU partner program)No/Low Snow Alternative With PEEC educators, sixth graders review the volcanic geology of the Pajarito Plateau and how we use water resources. Classroom visits include a short presentation and building aquifer models. The field day is a hike in Walnut Canyon to observe watershed enhancements built to stabilize headcuts, raise the water table, improve meadow health, and reduce invasive plants.	Duration: ~2 hours/2 classes 2 class limit on trail <u>Transportation:</u> <i>Transportation provided.</i>	School classroom and Walnut Canyon Trailhead.



PEEC
Pajarito Environmental
Education Center