

I N Q U I R Y S C I E N C E



LANL
FOUNDATION

Investing in Learning & Human Potential

Mission & Vision

- **Mission:**

To enhance the vitality of Northern New Mexico by investing in education, learning and community development.

- **Vision:**

To serve as a catalyst and leader for successful innovation in community and educational endeavors, engaging the region in creating excellence in education.

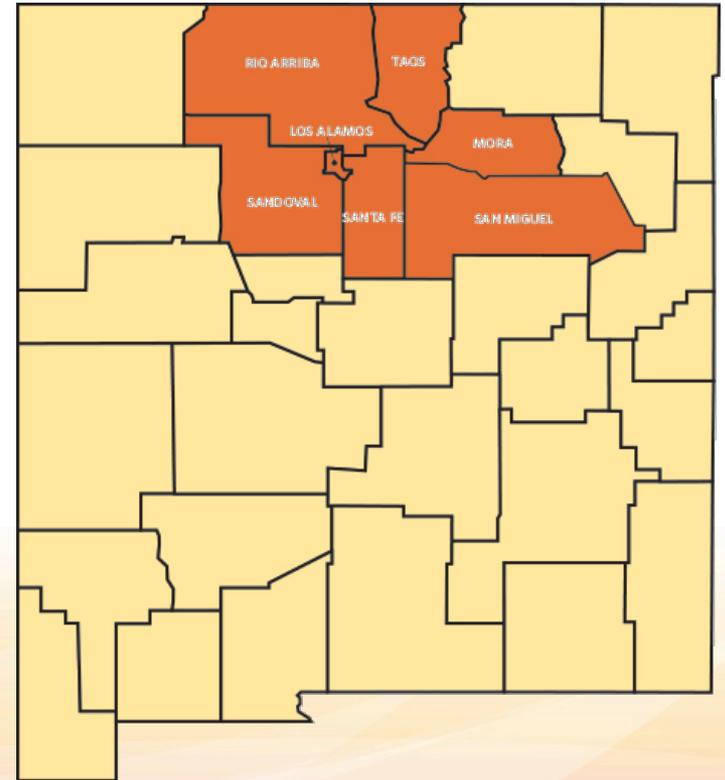


History

- Foundation is an independent 501(c)(3) created in April 1997 to provide sustainable support and help improve education in the vicinity of the Laboratory.
- Funded through DOE Congressional appropriations with support from the NM Congressional Delegation in the amount of \$35 million (1997–2003) and as authorized by the UC contract with DOE in the amount of \$28.5 million (1997–2005), with additional funding from individual donors.
- **When management of LANL was transferred from UC to LANS, additional funds were contributed by LANS, totaling \$16 million.**

What We Do!

- Currently manage \$78 million in assets (investments handled by UC)
- Focus primarily on seven county area: Los Alamos, Mora, Rio Arriba, San Miguel, Sandoval, Santa Fe and Taos
- Annually give out \$100,000 in small educational enrichment grants (\$1500 each) to support the public schools
- Execute and facilitate programs to improve education from cradle to career
- Provide community space in Espanola



LANL
FOUNDATION

Investing in Learning & Human Potential

Current Focus Areas

- **Prenatal to three: First Born[®]** home visiting program
- **Science education and inquiry learning in public schools:** Inquiry Science Education Consortium
- **Higher education and workforce development:** Scholarships through the Los Alamos Employees' Scholarship Fund and summer internships at the Lab



ISEC Core Program

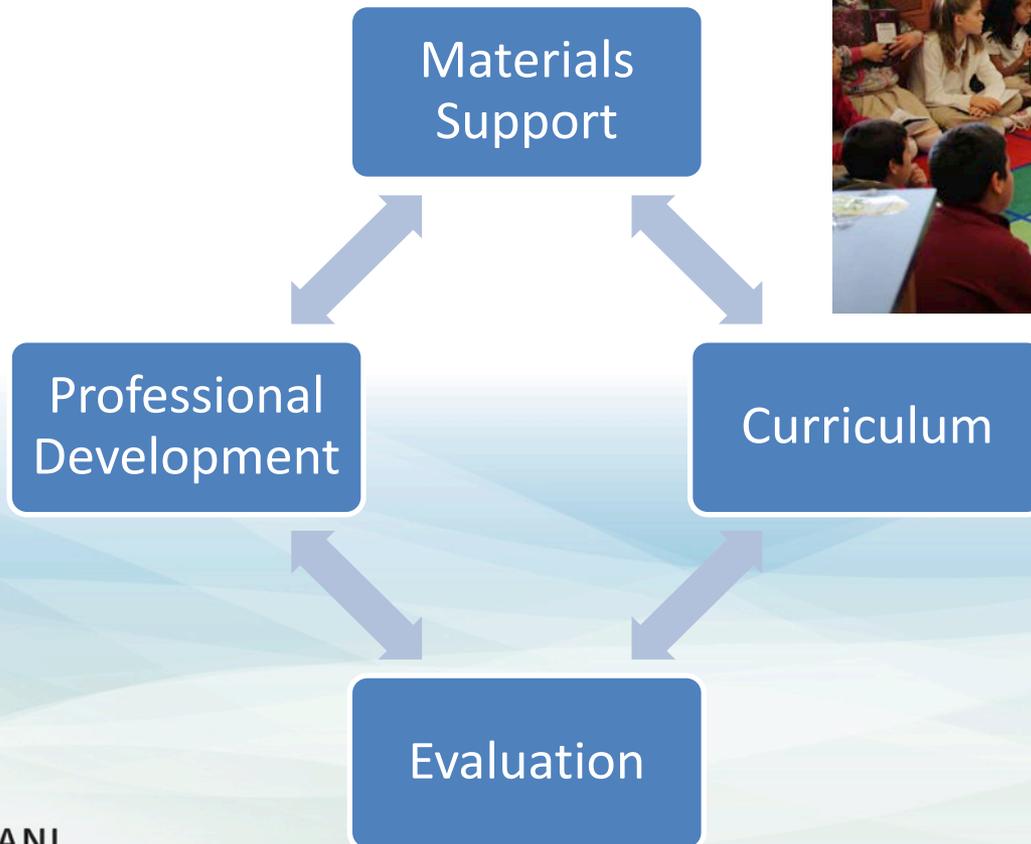
Beginning with SY 2016-2017

- 8 School Districts: Chama, Dulce, Espanola, Jemez Mountain, Mesa Vista, Penasco, Pojoaque, and Santa Fe
- 42 Schools
- Approximately 600 Teachers
- Approximately 12,350 Students
- 2016-2017 Budget: \$2.1 Million
- 2017- 2018 Budget: \$1.4 Million



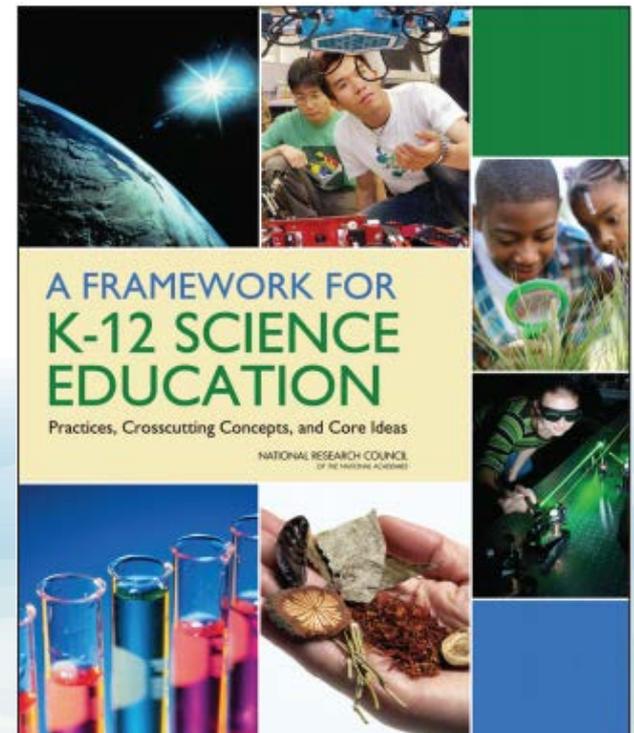
Cost per student: Between \$170 and \$100

ISEC Core Program



Curriculum

- Science Kits that are grounded in the *Framework for K-12 Science Education* and the *Next Generation Science Standards*
- Shifts in Engineering, Practices, and utilizing Crosscutting Concepts
- Turnover endemic in rural locations and schools with larger populations of free and reduced lunch.



Materials Support

- Ordering
- Scheduling
- Delivery
- Refurbishment
- Community Resource Center
- Training Center
- Locally-sourced products



Professional Development



- Four days of initial training during the *Summer Institutes*
- Follow up support and coaching by ISEC staff
- Cadre of teacher-leaders
- Strands that focus on in-depth topics and problems of practice

Evaluation



EDVANCE
research
INC.

Theory of Change



Evaluation

DEMOGRAPHIC CHARACTERISTICS FOR ISEC STUDENTS GRADES 3 TO 6

<i>Grade 3 to 6 ISEC Student characteristic (2014)</i>	<i>Española</i>	<i>Mesa Vista</i>	<i>Peñasco</i>	<i>Pojoaque</i>	<i>Santa Fe</i>	<i>Dulce^a</i>	<i>Overall^P</i>
Number of Students							
Students with demographic data	1294	98	79	543	4667	–	6683
Gender (%)							
Female	52	47	46	51	50	–	50
Male	48	53	54	49	50	–	50
Race/ethnicity (%)							
Hispanic	88	92	86	80	73	–	77
American Indian	7	3	9	15	2	–	4
Other	5	5	5	5	25	–	19
English Language Learner (ELL) Status ^a (%)							
	59	29	45	51	35	–	42
Special education (%)							
	11	9	15	8	15	–	13
Economically disadvantaged (%)							
	92	– ^c	100	71	72	–	75

Evaluation



EDVANCE
research
INC.

Propensity Match Analysis

Grade	Subject	ISEC Year 3	ISEC Year 4
4	Math	-	+
4	Reading	N.S.	+
4	Science*	N.S.	+
5	Math	N.S.	+
5	Reading	N.S.	+
5	Writing*	N.S.	+
6	Math	N.S.	+
6	Reading	+	+
7	Science*	N.S.	N.S.

PED Partnership

Making Sense of Science

- Science Resource Center, storage facility and refurbishment of materials
 - Sublease
 - \$20,000 towards labor costs and refurbishment
- Leveraging trainers for content-focused professional development for ISEC teachers



PED Partnership

Support from the Math and Science Bureau

Expansion and Sustainability for ISEC

- Chama Public Schools & Jemez Mtn.
- 20 Teachers, 4 Schools
- PD Costs: \$15,000
- Kit Cost: \$20,000
- Refurbishment, added Supplies: \$10,000
- Delivery: \$5,000
- General kit purchases for ISEC: \$50,000

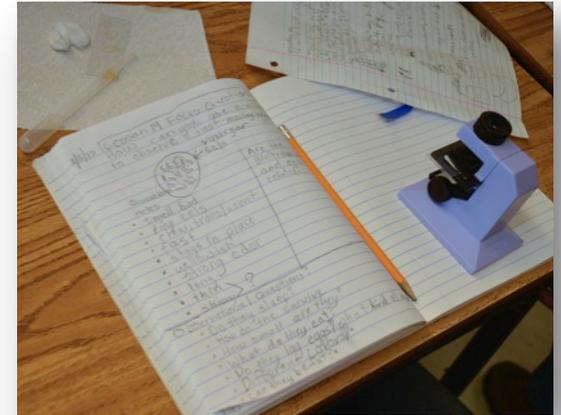


Our Goals

1. Continue to improve student achievement and demonstrate a broader understanding of *success*
2. Be an exceptional national model and lead with professional development and *teacher support*
3. Maintain a high level of materials management and *customer service*
4. Build upon the culture of science ISEC creates in schools to promote excellence in teaching and learning with a ***culture of inquiry*** across all subject areas.
5. Leverage funding and partnerships to support *program sustainability and evolution*



Questions?



lanlfoundation.org
(505) 753-8890