



PROMISING PROGRAMS & PRACTICES

APRIL 10, 2023

MARY LARA, AIMER COORDINATOR

NAU/NASA SPACE GRANT

A LITTLE ABOUT ME

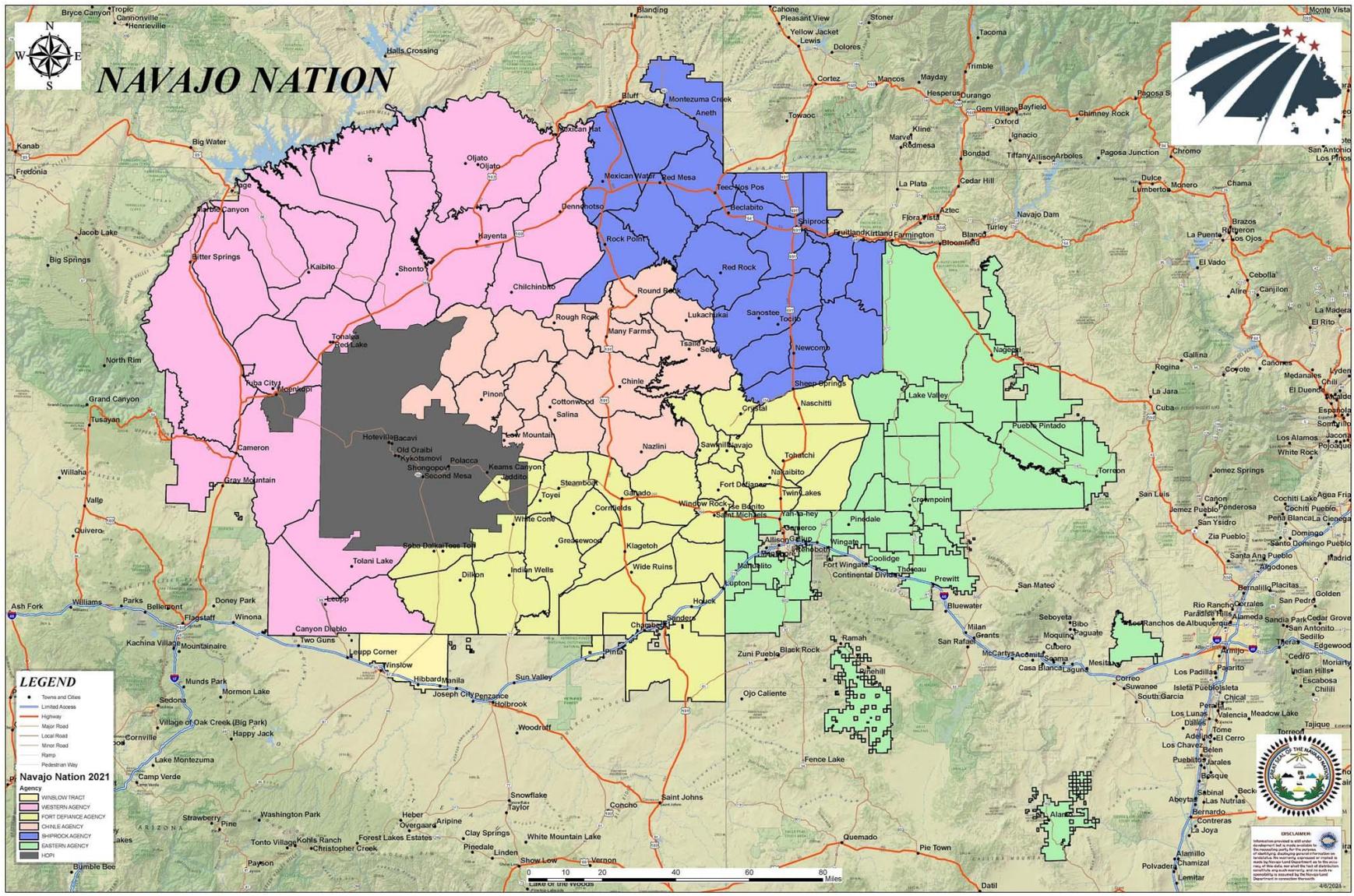


AIMER

- **The American Indian Mobile Educational resources (AIMER) (NAU/NASA Space Grant, Department of Astronomy and Planetary Science) provides hands-on lessons/activities to teach STEM topics to pre-college Native American students at K-12 schools, mainly on rural Indian reservations in Arizona and New Mexico. For K-8 schools, AIMER provides Family Science Night Activities. AIMER provides telescopes for community evening star parties. Additionally, AIMER participates in outreach events such as STEM or Science festivals.**

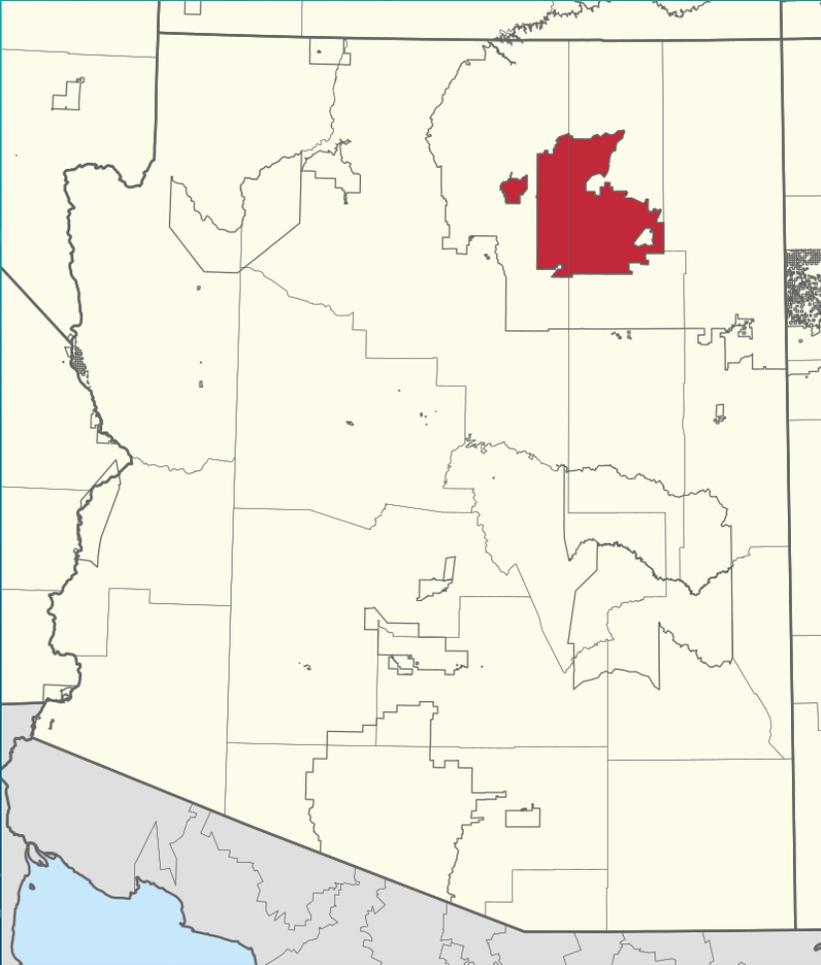
FLAGSTAFF





DISCLAIMER
Information provided is with other...
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HOPI RESERVATION



SCHOOLS



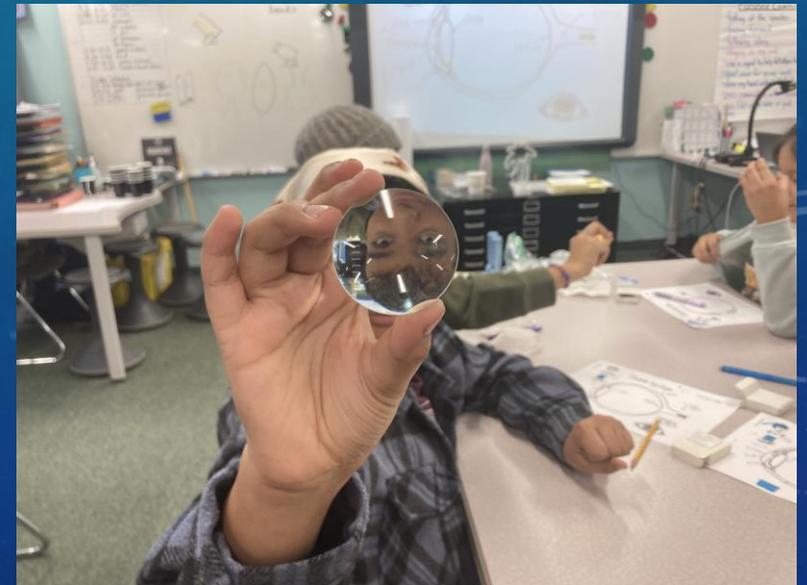
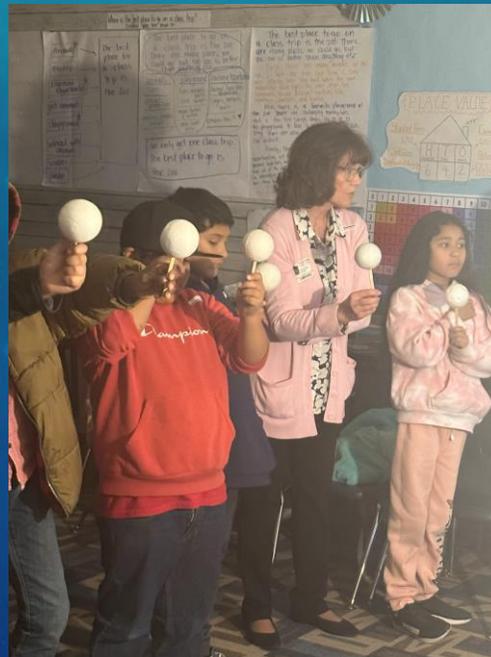
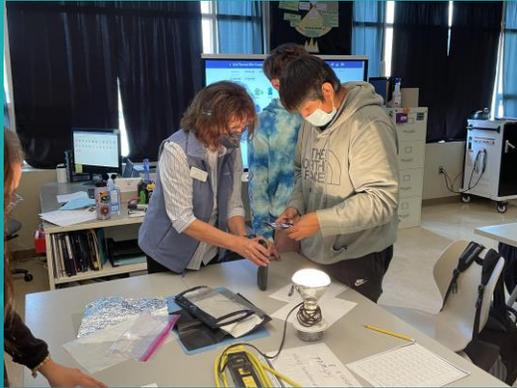
LIFE ON THE RESERVATION



HISTORY OF AIMER



AIMER NOW



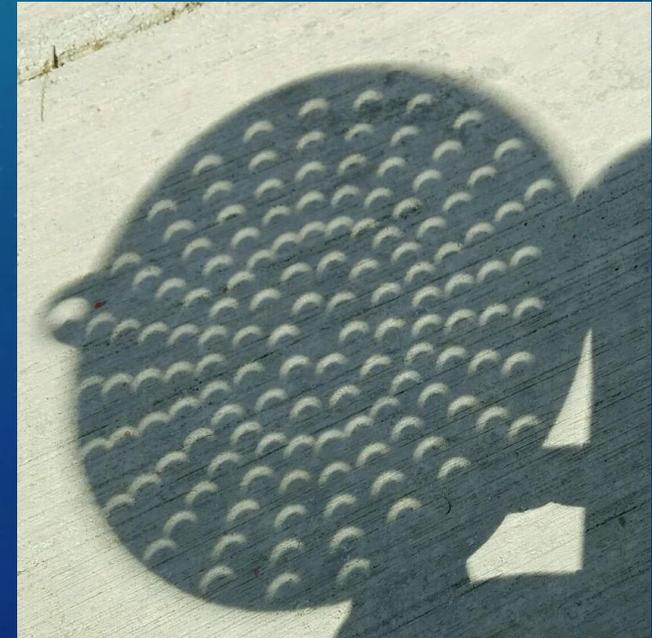
FAMILY SCIENCE



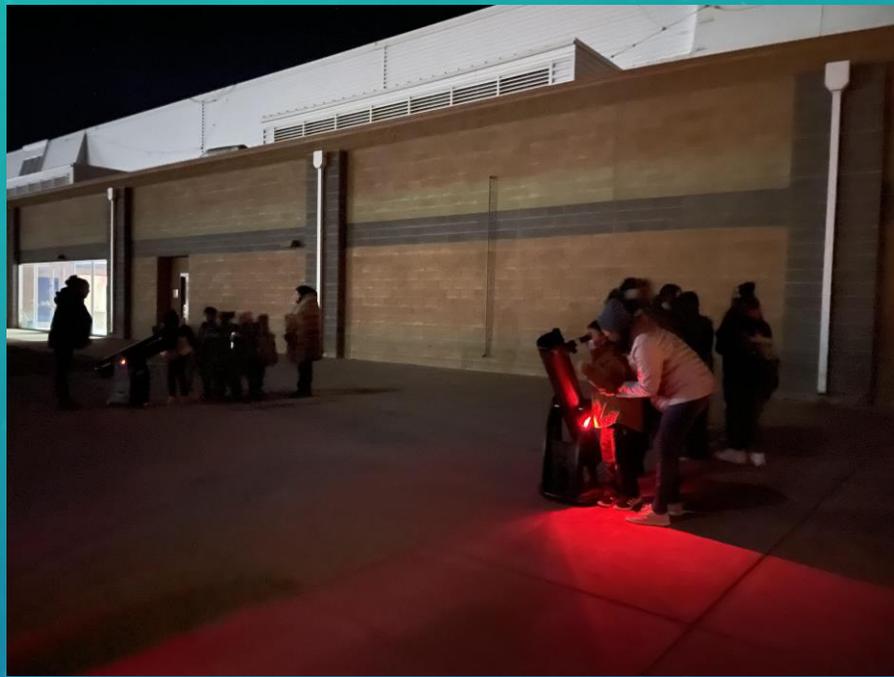
	Title	Description
1	AIMER CSI	What do you always have, but always leave behind?
2	Attractive	Determine which household objects are attracted to a magnet.
3	Balancing Bees	Explore the concept of balance and counterweights.
4	Blooming Flower	Discover the concept of capillary action and absorption in plants
5	Can You Walk Through Paper?	Can you cut a hole in a sheet of paper large enough to walk through? Is this a physical or chemical change?
6	Catch a Rainbow	Add a clear coating to black paper and get a rainbow of amazing iridescent colors.
7	Chromatography	See how ink in markers is made up of different colors.
8	Coke Floats?	Discover if Coke or Diet Coke (with and without caffeine) sink or float and make a hypothesis why.
9	Cool Reaction	Mixing vinegar and baking soda causes a chemical reaction that produces carbon dioxide and a temperature change. Does the temperature go up or down?
10	Compression	See how air compression can lift books.
11	Egg Carton Numbers	How many beans will an egg carton hold if you put one bean in the first slot, 2 in the second and so on?
12	Evaporation	Measure how the evaporation of liquid affects temperature.
13	Floating Paperclips	Use the properties of water to float a paper clip.
14	GLUEP	Make a plastic material from a chemical reaction by mixing together two solutions of chemicals.
15	Harry Potter Potion	Observe a chemical reaction.
16	Hoopster	Make an airplane without wings.
17	Invincible Balloon	Study the property of elastic polymers by passing a skewer through an inflated balloon.
18	Kitchen Chemistry	Compare the reactivity of different liquids.
19	Lumpy Liquid	Explore the different states of a chemical mixture.
20	Mirror Messages	Write a secret message.
21	Optical illusion	Understand how optical illusions can manipulate your vision and brain into seeing what is not there.
22	Silly Slime	Make a gel-like material using the physical properties of the polymer formed from white glue.
23	Soda Bottle Symphony	Use soda bottles and water to create both percussion and wind instruments and to discover how changing the volume of water in a bottle affects pitch.
24	Spaghetti Structures	Construct structures using creativity and ingenuity.
25	Surface Tension of Water	Observe the surface tension of water by placing as many drops of water on a penny as you can without them falling off.
26	Totally Iron	Test for the presence of iron in TOTAL cereal.
27	Wonderwhirler	Observe some properties of air pressure and aerodynamics as you make and experiment with a wonderwhirler.



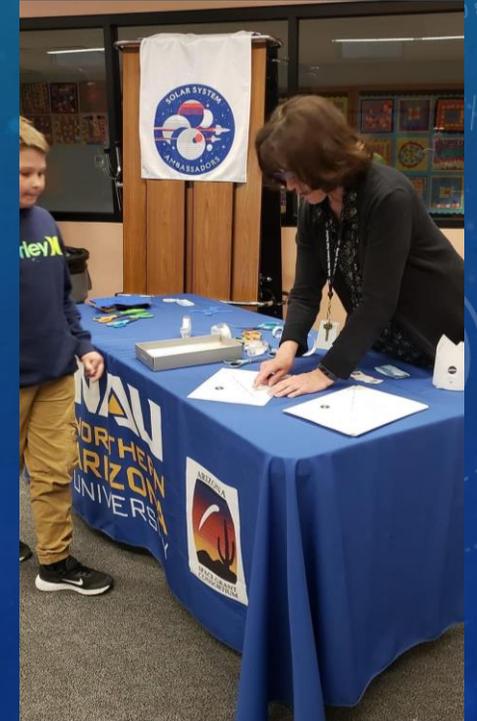
SOLAR OBSERVING



COMMUNITY STAR PARTY



COMMUNITY STEM EVENTS



ANY QUESTIONS?

