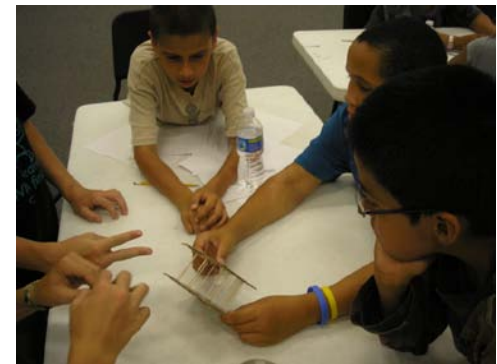


New Mexico Space Grant Consortium Summer of Innovation



Program Plan

- Teachers attend one week summer workshop
- Teachers give 3-4 week summer camp
- Summer - Students design an experiment that will fly on a sounding rocket from Spaceport America
- Fall – selected students will build and test their experiment for flight
- Spring – rocket launch from Spaceport America



Participants

- 138 teachers
- Over 2,000 students
- 38 school districts
- 5 states - New Mexico, Texas, Colorado, Arizona, Maine



Four Student Competitions

- Experiment competition – selected experiments will be flown
- Patch competition
- Video competition
- Essay competition – selected student will “push the button” to launch the rocket

Summer of Innovation Experiment Competition Winners

- Red Mountain MS - Determine the effects of changes in non-Newtonian Fluid
- Los Alamitos MS - Effects of Altitude on Adhesives
- Brown MS - Effect of Micro Gravity on Marshmallows
- Alta Vista & P.R. Leyva MS & Carlsbad HS - Radiation Levels compared to Carlsbad
- Truth or Consequences MS - Effects of Radiation & Effects of Magnetic Attraction
- Sierra MS & Camino Real MS - Effects of Temperature on Different Metals
- Grace B. Wilson - Energy Output of a Tesla Coil
- Harrison MS - Static Electricity in Space
- Picacho MS - Effect on Eggs in Micro Gravity



Summer of Innovation

Experiment Competition Winners

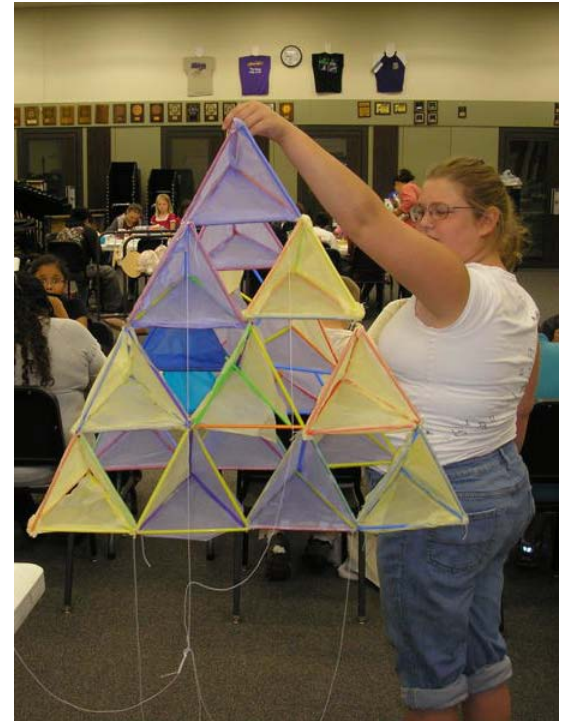
- Shiprock HS - Radiation Levels on Music CD's
- Desert Ridge MS - Magnetic Strength in Micro Gravity
- Brown MS - Effects of Micro Gravity on Weight
- Tohatchi HS - Effect of Micro Gravity on Ferro-fluid Magnet
- Tse Bit ai MS Differing Levels of Radiation and Temperature in Earth's Atmospheric Layers
- Central - Earnshaw's Theory - The Effect of Micro Gravity on Magnetic Levitation
- McKinley MS - Effects of Magnetism and Sound in Micro Gravity
- Alta Vista MS - Effect of Co₂ Production in *Saccharomyces Cerevisiae*
- Sidney Gutierrez & Brown MS - Effects of Sound Produced by a Guitar in Space
- Wilson K-8 School, Inversion Impacts on Electrical Energy



Summer of Innovation

Experiment Competition Winners

- Mescalero Apache School - Apache Culture Items in Micro Gravity
- Cottonwood Valley Charter School - Solar to replace Access panel for Spaceloft XL Rocket
- Mountain - Differing Radiation levels in the Earth's Atmosphere
- Mesilla Park - Text Messaging in Space
- Loma Heights - Fluctuation of the Electromagnetic Field and Temperature
- Aztec Municipal Schools - Piezoelectricity in Space
- Newcomb MS & Cleveland MS - Effects of Micro gravity on Balloons filled with Helium, Oxygen & CO²



Summer of Innovation Mission Patch Competition Winner



Summer of Innovation Launch

Spaceport America

April 1, 2011

