2010-2011 Education Guide

Education Programs

The Museum offers hands-on programs and activities that can be customized to grade level and curriculum. All programs align with the New Mexico Education Standards and are dedicated to the topics of energy, forces, nuclear radiation and the history of nuclear science. Programs at the Museum may be enhanced with self-guided or docent-guided tours.

Taste of Science (Grades Pre K-5)

Participate in demonstrations of atmospheric pressure, forces, electricity, magnetism, radiation and phases of matter. Students will sample different scientific instruments, which may include a vacuum pump, a Van de Graff generator, Geiger counters and others.

Encounter Energy! (Grades K-5)

What is energy? Examine the sources and uses of energy including heat, light, wind and electricity. Learn how energy reacts with matter and how it changes from one form to another. Build and test electric circuits and more!

Fly Me to the Moon (Grades K-5)

Students will model the movement of the planets, see a solar flare through a telescope, or design a rocket that will reach amazing distances. Learning about constellations includes hearing the stories depicted in the night sky.

Matter *Matters!* (Grades K-8)

Matter consists of solids, liquids and gases; compare and learn more about the properties of matter. Get introduced to nano. Nano = one billionth. That's tiny! This technology means that your shirt may never be ketchup-stained again. Create a recipe for the stiffest plastic ball or slip a needle through a balloon without a bang. Learn more about this new field and how it is changing our lives today.

Radiation: Friend or Foe? (Grades 6-8 or 9-12)

Use the Museum Geiger counters to measure the radioactivity of common household substances and radioactive isotopes. Replicate half-life experiments used to date fossils, learn how nuclear images are created, and measure your own natural radiation dose during a year.

New Mexico History & World War II (Grades 7-12)

Secrets and Spies: Decipher a secret code while you learn the story of the Russian spies who stole secrets from Los Alamos in the 1940's. Use primary source material and view the museum exhibits showing the role of secrecy, espionage, and science in World War II history.

Decision to Drop: Weigh the pros and cons of dropping Fat Man and Little Boy over Japan through the use of primary sources and the viewpoints of historical figures. Students will engage in role-playing activities designed to stimulate critical thinking skills.

Visit our website to learn more! www.nuclearmuseum.org

Book a Program

To reserve your class trip or program, **Call** (505) 245-2137, ext. 103 or **go online**, www.nuclearmuseum.org, click on "Teachers & Parents," then "Reserve Your Class Trip."

Calendar of Museum Events

Check out our calendar of events throughout the year; learn about teacher workshops; read all about our winter, spring, and summer "Science is Everywhere" camps at www.nuclearmuseum.org.

Program Pricing

Self-guided Tour	$5 per student
Docent-guided Tour ***or*** Museum Program	$6 per student
Docent-guided Tour ***and*** Museum Program	$7 per student

Museum Exhibits and Tours

Bring your students to the Museum and discover the museum through a docent-guided tour or accompany your students on a self-guided tour with museum worksheet guides.

Scintillating Science Tour

Radioactivity is all around the world; learn how this energy has been harnessed. What are alpha, beta and gamma rays? Find out how nuclear energy is used in medical care, from x-rays to tracing radioisotopes in the human body.

Tempting Technology Tour

Examine the options of green energy alternatives like solar, wind, and nuclear power. Follow the uranium fuel cycle from mining through processing to use in a nuclear power plant and finally recycling or storage. Decide for yourself whether our energy demands can be met with fossil fuels.

Hefty History Tour

Peek into the lives of the scientists from Los Alamos who worked on the Manhattan Project and their role in developing nuclear weapons dropped on Japan. See a remarkable collection of artifacts from World War II and the Cold War including items from American popular culture reflecting the new Atomic age. See inside an airplane in our outdoor Heritage Park.

National Nuclear Science Week

January 24-28, 2011
Visit www.nuclearscienceweek.org to learn more!

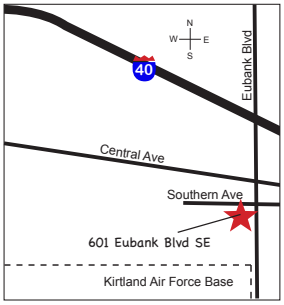
See inside for Museum programs too!

The National Museum of Nuclear Science & History

601 Eubank Blvd SE
Albuquerque, NM 87123

(505) 245-2137

www.nuclearmuseum.org



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