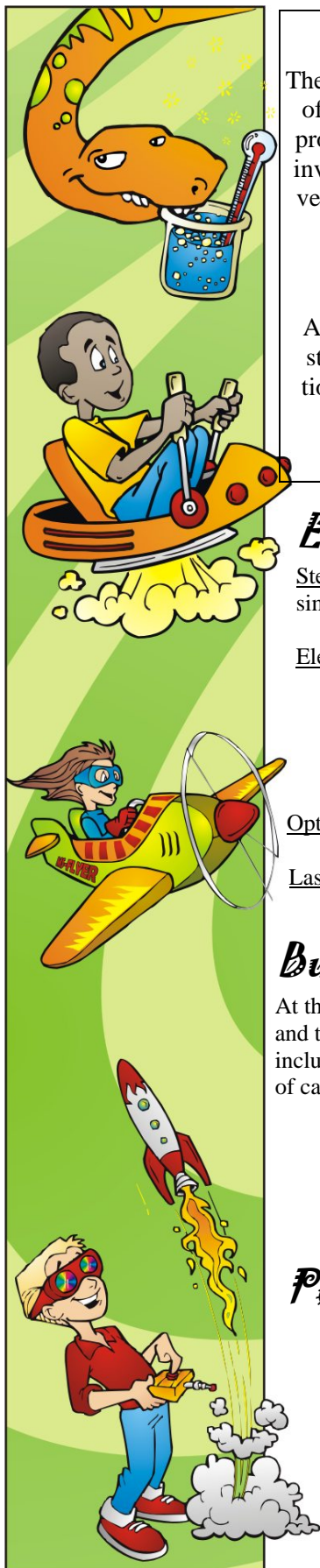


Family Science Nights & Science Carnival



Mad Science Stage Show Spectacular

The evening can begin with an exciting stage show that highlights a variety of spectacular demonstrations of scientific principles. We'll explore the properties of fire using safe special effects such as trinitrocellulose paper, investigate the effects of air pressure with *Bernoulli's Principle*, and marvel over the wonders of dry ice (e.g., its use in carbonation and as special effects in movies).

Choose *Up To five* Awesome *Activity Centers*

All Activity Centers include a mixture of hands-on activities and demonstrations by Mad Science staff. Fun for both parents and kids!! Descriptions of the scientific principles involved as well as exploration questions for each hands-on activity will be posted at each activity center. Mad Science will provide all equipment and supplies.

Exciting Electricity

Steady Nerve Tester- This activity illustrates the construction and use of a simple circuit in a fun and challenging activity. The concepts of a series circuit, conductivity, and a simple switch are explored.

Electric Conductivity Wall- Participants will have the opportunity to use the Lumiglass Conductivity Wall to hypothesize and experiment with different materials to determine their relative conductivity.

Light and Optics

Optical Illusions— Experience the fun and trickery of a variety of awesome optical illusions

Laser Maze- Use mirrors to reflect laser light through a maze; learn about angles & reflection.

Bubbling Potions

At this station we will be continually demonstrating the principle of sublimation and the properties of dry ice. There will be several different demonstrations including one in which participants will have the opportunity to sample the "taste" of carbonation.

Air Pressure

Vortex Generators- Experience the power of a tornado "vortex" in the air using some simple, safe and awesome fun activities

Bernoulli's Principle Experiments- Use air to make balls "float" in the air!

Polymers

One of our Mad Scientists will explain the properties of polymer molecules and assist children with a hands-on chemical reaction that will result in the creation of their own polymer (Mad Science Slime!). Children will be able to take their slime home to play with (in special containers).

Be Sun Safe

Learn about Ultraviolet Light (aka "invisible light"). Make a cool UV Detector bracelet or keychain out of special beads that change color when exposed to UV light and find out if the mark of genius appears on your arm.

Wow!

Fun Activity Centers!

