

## Rocket Science

This is your chance to be a rocket scientist! Investigate the four forces flight with the help of a Unique Flying Object! Explore the science involved in rocket construction as you build your own *Skyblazer II Rocket™* that you can take home!

## Space Technology

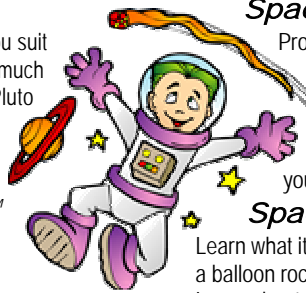
Discover technology designed for outer space! Steer a laser beam through a laser maze, find hidden mountains using the principles of radar technology and discover everyday objects originally designed for use in space! Take home a *Lightning Launcher™* that will light up the sky!

## Living in Space

Live the life of an astronaut as you suit up for space flight! Find out how much you would weigh if you lived on Pluto and how old you would be if you lived on Saturn. Participate in a space mission and make your very own *Cosmic Chronometer™* watch to measure the time here on Earth

## Sun and Stars

This stellar program is your ticket to the stars! Watch star dust burn, and journey through a soapy galaxy as you investigate the life cycle of stars! Use your *Bead Dipper™* to create a 3-dimensional glow-in-the-dark constellation!



## Planets and Moons

Explore the farthest reaches of our solar system and create a lunar eclipse in this "mad" planetary tour! Build and take home *Kepler's Cube™*, a fun and educational 3-D solar system puzzle!

## Atmosphere and Beyond

We're on a mission to explore the atmosphere on Earth, and beyond! Travel to the end of the rainbow and make a sunset! Mix up various planetary atmospheres, one molecule at a time! Discover how stars would look in space and see what makes stars twinkle using your very own *Shimmering Stars™*

## Space Phenomena

Probe the mysteries of meteors and launch a satellite in this phenomenal program on space events! See comets up close as one is formed before your eyes, and take home your very own *Catch-a-Comet™*

## Space Travel

Learn what it takes to be a true globetrotter! Race a balloon rocket and design your own car engine. Learn about thrust. See the principles of propulsion at work in a real rocket launch. Build your very own *Shuttle Copter™* to fly to the skies!

# AFTER SCHOOL CLASSES 2008-2009

## SYSTEM 2 WINTER AND SPRING

### WATTS UP

Learn all about static electricity and the role it plays in natural phenomena. Create real lightning with our very own Mad Science Van-Der-Graaff generator in this truly "hair raising" class!



### LIGHTS, COLOR, ACTION

Uncover the secret components of white light and discover hidden rainbows. Create a "magically disappearing" Newton's color wheel. See a spectacular indoor fireworks display!

### MAGNETIC MAGIC

Investigate the invisible power of magnets! Test for electromagnetic fields, witness the force that even the tiniest magnets have and build your very own floating magnet lab.

### OPTICAL ILLUSIONS

Experiment with the crazy tricks that our eyes can play on us! Gain knowledge about optics, reflection, refraction and vision. Take home an awesome Mad Science periscope.

### SONIC SOUNDS

Discover the unseen world of sound waves with our super sound wave modulator. Make a silly sound effects tape to take home; using a real voice modifier.

### HARNESSING HEAT

Marvel at the amazing properties of heat! Watch the eruption of an under-water volcano. Change the states of matter and make your own cotton candy!

### TANTALIZING TASTE

Probe your tongue with various taste sensations, while "mapping" out your mouth. Put your taste buds and sense of smell to the test in our flavor blast challenge!

### MISSION NUTRITION

Our destination in this mission is a healthy lifestyle! Discover how our bodies use food for fuel. Children will like building our nutritional pie chart with life size food replicas and then count their steps home with our cool Mad Science Step-O-Meter!

## SYSTEM 4 FALL AND WINTER

### BUGS

How do insects defend themselves? What is their role in the ecosystem? These are some of the questions we'll focus on as we explore the unique characteristics of insects through intriguing hands-on activities



### DETECTIVE SCIENCE

Discover how science is used to solve real crimes! The classroom is transformed into a crime lab for this exciting exploration of the fundamentals of forensics. Children will even take home their very own Child Identification kit.

### MOVIE EFFECTS

Grab your popcorn, but don't sit back... We're going to learn first-hand how advances in science and technology make our favorite movie special effects! Kit. criminal!

### EARTHWORKS

Take a voyage to the center of the Earth! We'll investigate the powerful process that shapes our planet and forms remarkable rocks, magnificent minerals, and glittering gems! See minerals fluoresce before your very eyes and create your own sedimentary stacker to take home.

### MAD SCIENCE MACHINES

You will be hard at work with pulleys and levers as you design, problem-solve, and have a lot of fun! Take home an awesome machine that you have built yourself!

### SCIENCE OF ART

Discover the links between science and art. See how master painters mix and separate colors. Experiment with heat transfer. Try your hand at being a forensic detective tracking stolen art.



### WALLOPING WEATHER

Neither rain, nor sleet, nor snow will prevent us from enjoying our hands-on exploration of meteorology! Discover how tornadoes and storms form and how powerful they are! By the end of the class, students may offer more reliable forecasts than the local news!

### SEEKING OUR SENSES

This class is more than meets the eyes. Uncover the mysteries behind the senses through hands-on, nose-on, ears-on and tongue-on activities. Experiment with stethoscopes and tuning forks and take-home your own bug eye viewer