Home School Programs!

Let’s face it, teaching science can be difficult! How can you make dry scientific concepts come to life in a fun way? That’s where Mad Science can help! Mad Science of Sacramento Valley now offers Home-School Workshops designed to conquer difficult concepts and principles and make them fun and exciting!

Our professional lesson plans present ideas with terms, phrases and language that kids understand. We present science concepts in bold, innovative ways that draw your students into the exciting world of possibility and discovery. Through the use of real life examples from the world around them, kids learn science from hands on experiences. Our proven method engages your students in active and experiential learning that heightens understanding, retention and application.

<table>
<thead>
<tr>
<th># of Sessions</th>
<th># of classes</th>
<th>Pricing/child</th>
<th>Reg. Pricing</th>
<th>Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>$75</td>
<td>$78</td>
<td>$3</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
<td>$140</td>
<td>$156</td>
<td>$16</td>
</tr>
<tr>
<td>3</td>
<td>18</td>
<td>$215</td>
<td>$234</td>
<td>$19</td>
</tr>
<tr>
<td>4</td>
<td>24</td>
<td>$279</td>
<td>$312</td>
<td>$33</td>
</tr>
</tbody>
</table>

3 Easy Ways to Register Beginning July 1st, 2010!
By Phone – (916) 779.0390
Online – www.MadScience.org/Sacramento
In person – 1804 Tribute Road Suite A. Sacramento 95815
FALL 2010 SESSION
“FORCES, FIZZING & FLIGHT!”
Wednesdays, Grades K-6
10:00am – 11:00am
8/25, 9/1, 9/15, 9/22, 9/29, 10/6

Che-mystery
Eliminate the mystery in chemistry! Explore one of the most exciting and fundamental sciences as you grow a crazy crystal garden and make your own “chemical” soda pop!

"Current" Events
Take a tour on the electron freeway! Conductors, insulators, transistors, and other elements in the world of circuit electricity introduce themselves to you via the tingle in your fingertips and the twinkle in your eye

Wacky Waves
Create your own multidensity wave bottles while learning about water, waves and the environment. Simulate the effects of an ocean oil spill and develop creative techniques to clean it up!

Stunt Planes & Gliders
The Wright Brothers would be proud as we follow in their footsteps and learn the fundamental principles of flight. Build a “football” glider, control surfaces and your very own loop-flying stunt plane. You’ll be a Top Gun after this class!

Super Structures
Discover the strengths of triangles, cylinders and arches. Learn how combinations of these shapes make for sturdy homes and skyscrapers! Use teamwork to build your own super structures as well as an earthquake-proof building!

Under Pressure
Join Bernoulli and Newton as we take this exciting look at the science behind aerodynamics and the properties of air... under pressure. Use a vortex generator to create air pockets with a punch, and levitate ping-pong balls in defiance of gravity!

WINTER 2010 SESSION
“ZAPS, BOOMS & SHOCKING SIGHTS”
Wednesdays, Grades K-6
10:00am – 11:00am
11/3, 11/10, 11/17, 12/1, 12/8, 12/15

Watts up?!?
Learn about electricity, its properties and its role in natural phenomena. Make indoor lightning while conducting hair-raising experiments with our electrostatic generator

Optical Illusions
Build your own periscope while learning about optics, reflection and sight. Watch celebrity images change before your very eyes! Seeing is not always believing

SLIME!
Explore the exciting world of polymers, the chemical reactions we use to create them and the inner workings of silly putty. Transform two regular liquids into an oozing batch of your very own slime!

Sonic Sounds
Discover sound, sound waves and the way household items can be used to create amazing movie effects. Use our multi-effects processor to make a cassette tape of your altered voice, with lots of cool special effects

Harnessing Heat
Witness a mini rocket launch while learning the properties of heat! Use the power of heat to dramatically shrink your own plastic take-home creation!

Magnetic Magic
Investigate the powers and daily uses of magnets. Test for electro magnetic fields and then use what you have learned to build your own electro magnet!
**SPRING 1.0 SESSION 2011**

“MOVIES, MACHINES & MOTHER EARTH!”

Wednesdays, Grades K-6
10:00am – 11:00am
2/9, 2/16, 2/23, 3/2, 3/9, 3/16

**Detective Science**
Discover how science is used to solve real crimes! Watch as 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. It’s so much fun, it’s criminal!

**Earthworks**
Take a voyage to the center of the Earth! We’ll investigate the powerful processes that shape the planet and form remarkable rocks, magnificent minerals and glittering gems! Children will take home sedimentary stackers that they made themselves!

**Kitchen Chemistry**
Cooking is all about chemistry! Students will be introduced to the laboratory that we call a kitchen for a look at some novel and practical applications of science! Children will build their own Solar Cooker and learn how living organisms cause bread to rise. Dinnertime will never be the same!

**Mad Science Machines!**
Watch teams of elementary-age engineers working together with pulleys and levers. Children will have so much fun problem solving, designing and testing just like real engineers, and they’ll forget that they’re learning! Children will take home a cool Mad Science Machine that they built themselves!

**Movie Effects**
Grab your popcorn but don’t sit back! We’re going to learn first-hand how advances in science and technology are behind our favorite special effects! Children will take home a cartoon creator booklet the end of this fun-filled program. 3, 2, 1… Science in Action!

**Walloping Weather**
Discover how hurricanes, tornadoes, and thunderstorms develop, and how powerful they can be! Our junior meteorologists will be making more reliable forecasts than the local news. Just ask students to consult their personal UV detectors to check whether it’s time to cover up!

**SPRING 2.0 SESSION 2011**

“SYSTEM 5”

Wednesdays, Grades K-6
10:00am – 11:00am
4/6, 4/13, 4/27, 5/4, 5/11, 5/18

**Radical Robots 1 & 2**
Build your very own robot hand to take home in these two classes that focus on technology. Explore how robots can be used to make our lives easier. Experiment with robots that can do some extraordinary tasks, infrared robots, robotic arms and even soccer playing robots.

**Energy Burst!**
Explore the energy of motion (potential versus kinetic energy), and how energy can be conserved. Build a rubber band-powered rattlesnake egg to help learn all about energy — and scare your friends.

**Science of Art**
Get your left and right brains working together and discover the links between science and art. Mix and separate colors, uncover art forgeries, investigate friction. Discover that science is an important part of art, and make your own distorted image to take home.

**All About Animals**
Feathers, fins, fur and more! Explore the animal kingdom and learn about the habitats, anatomy and life cycles of your favorite creatures. Make your own animal track to take home, experiment with camouflage and explore the amazing — and sometimes strange — sounds that animals make.

**Life In The Sea**
What is life like under the ocean’s surface? What kind of animals and plants are found in the sea? Examine and investigate starfish, sea urchins and shells. Learn about buoyancy and adaptation. Make your own Cartesian diver, and find out what humans must do in order to explore the deep, dark depths of our planet’s oceans.