

Mad Science Presents: **BUILD A BETTER WORLD!**

Science and Engineering Programs for the 2017 Summer Library Theme



Fun and Exciting Hands-on Workshops Entertaining and Educational Stage Shows

PLEASE SEE
REVERSE
FOR MORE
EXCITING
OPTIONS!
➔

Available in two different formats:

• **Stage Shows:**

- Three different topics to fit the theme:
What Do you Know About H₂O, Fun-tastic Forces, & Up, Up, and Away
- Perfect for groups of 30-300 children and parents!
- Leave your audience hungry to explore more science at your Library and at home!
- Ask about our other exciting stage shows like **Science of Superheroes, Fire & Ice, Spin, Pop, Boom!** or **Sounds like Science - and Wind and Bubble** for Preschoolers, as well as our engaging hands-on activity centers!

• **Workshops - Great Options for Awesome Hands-On Fun!**

- Perfect for smaller groups of up to 30 kids, with hands-on exploration for all participants!
- Below is a list of a few exciting workshop topics available to match the 2017 theme.
- Many other topics are available, please call for more information.

Elementary School Age Workshop Topics:

Fundamental Forces: Children will find out what makes the world go 'round in an introduction to the concepts & basics of forces.

Super Structures: A fantastic introduction to some of the concepts, terms and ideas behind engineering and architecture

Mad Machines: Children investigate simple machines and the role that they play in our everyday lives.

Invention-ation/"Rube Goldberg": Introduces children to famous inventors and their inventions, then they get to invent a contraption!

Radical Robots: Children get a basic introduction to robotics and get to experiment with various robots, some with basic coding activities!

Engineering Activities: If you have a large space, we can bring materials and the science know-how to build pasta bridges and skyscrapers, large geodesic domes, or conduct an egg drop challenge!

Preschool workshops fitting the summer reading theme are also available!

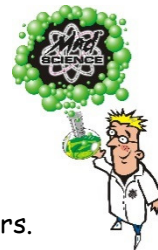
"(The Mad Scientist) was fabulous. Her knowledge of science and Harry Potter was top notch. She was funny and the experiments were entertaining." **Mary Cheney Library, Manchester, CT**

"We really enjoyed the program!" **Mason Library, Great Barrington, MA**



Other Options from Mad Science of Western New England:

Hands-On Discovery Centers



As an addition to your stage show or for smaller budgets, consider Mad Science Hands-On Discovery Centers. Discovery Centers allow children to interact with the topic in a flexible, completely hands-on manner. Centers are booked by the hour and each one can accommodate between 80-100 children in that time.

Slippery Slime: Learn the basics of polymer structure and molecular bonding. Children get to make their own slime to keep!	Dry Ice/Bubbling Potions: Explore one of the most exciting and unique substances anywhere. Experience Mad Soda, Foaming Bubbles and the secret to some Hollywood special effects.
Polymer Fun: Learn the basics of polymer structure and experience three different kinds of polymers: kinetic sand, orbs, and instant snow. The difference between these three illustrates to children how different polymers can be even though they have the same structure. Every child takes home either a cup of orbs or instant snow!	Fun With Candy: Many different experiments all done with something children love- Candy! Learn the science behind gasified candy. Experience candy chromatography. Use your senses and put different candies to a smell test and much more! We can even make a candy soda fountain if you have enough room!
Circuit Madness: Experiment with electric circuits while building your own circuit to power lights and buzzers.	Optical Illusions: Be mystified by the wonders of optical illusions! Test your ability to find hidden images and experience the many ways our eyes can be tricked.
Amazing Air: Dynamic air fun! Levitate balls on air, feel the power of a vortex of air and see vacuum pump demos!	Cotton Candy: Discover the science behind the making of cotton candy. Each child gets their own cotton candy to eat!
Be Sun Safe: Learn about UV rays and make cool "UV Detector" keychains with beads that change color when exposed to UV light.	Zap Attack: Plasma Balls and Luminglasses allow you to test whether objects are insulators or conductors. Test your nerves with the Mad Science circuit maze.
Wacky Water: Learn about water and surface tension. Create tornados and dive for treasure. See magic sand that is afraid of water.	More topics and customized Discovery Centers also available. Please call or email for more information.

MAD SCIENCE STAGE SHOWS

Mad Science stage shows are high-energy, interactive, multi-sensory experiences lasting between 50-60 minutes. During all shows, the Mad Scientist will call up volunteers, ask questions of the audience and even take experiments out into the audience. Shows are adaptable for any size audience. No hassle for you, we bring everything except a table and clean it all up!

UP, UP AND AWAY!: The overriding theme for this show is Air Pressure. We demonstrate the force of the "ocean of air" that surrounds us at all times. Soda bottles are crushed and vacuum pumps are demonstrated. Children discover vortexes and Bernoulli's Principle. We even end the show with a ride on Mad Science's own Hovercraft!	SPIN, POP, BOOM!: This show illustrates several very visual scientific effects. Experiments will demonstrate the effect of centripetal force and the principle of angular momentum. Chemical reactions create a Genie-in-a-bottle and an eruption of foam! We discuss sound & resonance & produce cool sounds in our versions of the Didgeridoo and an awesome Mad Science pipe organ!
SOUNDS LIKE SCIENCE!: Make waves and make some noise in this fun and funky show that explores the science behind sound! We will create a crazy cacophony with a garbage can, a swinging sound tube and a metal pipe! Children will cheer as pickles glow and potatoes pop! There is even a kid-created thunder storm!	FUN-TASTIC FORCES!: Sir Isaac Newton has never been so much fun since an apple hit him on the head! Newton's laws of motion are demonstrated using spinning platforms and much more! Thrill as we defy logic with the Mad Science "Bed of Nails". Watch as water pressure and the concept of nucleation create a 10 foot Mad Science soda fountain! And finish the show with rides on a Mad Science rocket-powered car!
WHAT DO YOU KNOW ABOUT H₂O!: This is an interactive event about the wonders of water and our need to protect it. The presentation flows along a water conservation theme sprinkled with water-based facts. This shows ends with a game of water Jeopardy!	SCIENCE OF SUPERHEROES!: In this show, discover the real science behind some of the most popular superhero powers! Children will explore the science of flight, how science can make things invisible, and how superheroes might walk up walls using fun, high-energy experiments!