

MAD SCIENCE OF WESTERN NEW ENGLAND
**AWESOME SUMMER &
SCHOOL VACATION
ACTIVITY WEEKS 2009**



Secret Agent Laboratory: James Bond Edition

(Ages 7-12 or entering Grades 2-6)



Develop your special agent and detective skills in this super hands-on week of fun! Uncover the science involved in evidence-gathering and analysis. Become a super sleuth and discover many of the science-based "tricks" that spies use. From decoding messages to metal detectors and night vision, campers will have the opportunity to check out spy equipment, and discover the exciting technological tools of detection.

Secret Agent Lab: CSI

(Ages 7-12 or entering Grades 2-6)



(NOTE: Each Secret Agent program is unique & children can take them in any order.)

Sharpen your secret agent skills in this exciting hands-on look at crime scenes. Discover how chemistry and the science of forensics can come to the aid of a secret agent. Identify and collect evidence-- from fingerprints to tracks to trash! Recreate the scene of a crime using clues and detailed observations. Campers will use science and awesome technology tools to connect the dots and help sniff out the suspects in this investigation into the science of sleuthing.

Red Hot Robots!

(Ages 8-12 or entering Grades 3-6)



Delve into the fascinating world of robotics and machines in this weeklong program. Children will *construct their own robots* while gaining a working knowledge of the science of circuits, wheels, gears, and sensors. They will build motorized robots, most likely one that can be set up to walk on 4 or 6 legs or to move like a monkey hand-over-hand down a rope. They'll also learn about simple machines and how they, like robots, are used to make life easier. Robots go home with campers on the last day of the program. All supplies included.

Program Length

Awesome Activity Weeks last 1 week for 2.5-3 hours per day.

Group size: Minimum 10 - Maximum 22

Special Requirements

A room with ample floor and table space is necessary.

We will need enough chairs to seat all the campers at tables as well as access to electricity and water.

Mad Science of Western New England
(413) 584-SCIENCE (7243) (800) 338-5711 (CT only)

www.madscience.org/westnewengland



NASA ACADEMY FOR FUTURE SPACE EXPLORERS

(Ages 7-12 or entering Grades 2-6)

Experience our new program co-designed by NASA and Mad Science! From our Earth's atmosphere to the outer reaches of our solar system, this hands-on program for children ages 7-12 sends them on a quest for exploration! Comets, planets, stars and more are all waiting to be discovered. Explore the farthest reaches of our solar system and create a lunar eclipse in this "mad" planetary tour! Steer a laser beam through a laser maze, and bring the excitement home with a *Lightning Launcher™* that lights up the sky! Learn about the four forces of flight, the challenges of space travel, build your very own rocket to take home and participate in an awesome rocket launch!

Rockin' Rockets & Aerodynamics

(Ages 7-12 or entering Grades 2-6)

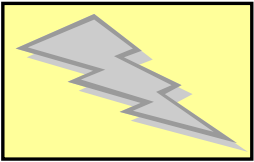


Children will step into the shoes of a rocket scientist and learn the fundamentals of flight, propulsion and rocket design. We'll have fun exploring astronomy one day and try out various flight designs from hot air balloons to hovercrafts (and many more!) "Launch Day" will bring some *real excitement* to your budding astronaut! Kids will build rockets as well as discover the fundamental concepts involved in launching and recovering many different types of rockets. Take home your own complete Mad Science rocket and (optional) launching kit for launches at home.

Young Wizards Science Academy

(Ages 7-12 or entering Grades 2-6)

Become a student of Wizardry with this magical science week. Great for Harry Potter fans! Uncover the scientific principles behind magic. Students will create the dreaded "potion of drought", live a day in the life of a wizard's best friend, create some instant "invisibility", and whip up some troll boogers with a magic wand. The secrets of levitation and other magic tricks which have been passed on from wizards to magicians will be revealed to you. Fun, education, & discovery- perfect for any Young Wizard!



Junior Scientists Fun Lab!

(Ages 4-6)

Have your child become a Mad Science "Junior Scientist" and come with us to discover how much fun science really is! In this Fun Lab children get a chance to explore many aspects of the world such as energy and motion, water, as well as delving into the lives of animals. They'll even have a day as "Mad Science Master Builders" building and designing awesome structures. They'll make various things to take home with them that will help establish them as official "junior scientists" as well as encouraging them to pursue their scientific curiosity in school and in the world around them.



We bring **FUN** science to you!

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