



MAD SCIENCE[®] WORKSHOP MENU

LET US SPARK THE IMAGINATION OF YOUR STUDENTS WITH A
MAD SCIENCE IN-SCHOOL FIELD TRIP!

BE TOBACCO FREE

This workshop is packed with fun and interactive programming that will get children in grades 3-6 completely grossed out by the effects of tobacco. Your students will be made aware of the danger of using tobacco products as they learn how smoking affects their heart and lungs.

BUGS

Welcome to the realm of insects! Learn about their fabulous flying abilities, their unique eyesight and the ways that they defend themselves against predators. Discover the characteristics typical of insects and take home your own "Insect-A-Vision".

CHEM IN A FLASH

Take a trip through several fields of chemistry and discover the factors that can change the rate of a reaction. Children will explore crystallization and receive an Action Flask kit to perform more experiments at home.

CHE-MYSTERY

Eliminate the mystery in chemistry! Explore one of the most exciting and fundamental sciences as you make your own artwork with shaving cream, test various powders and take home a Dynamic Dish to test even more!

"CURRENT" EVENTS

Conductors, insulators, fuses 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. See how steady your nerves are with your own Circuit Maze.

DETECTIVE SCIENCE

Step into the role of a detective and discover how forensic science plays a central role in solving crimes. Create and analyze fingerprints, make teeth impressions and discover how written materials can be studied to help solve a mystery. Take home an identification kit to record your fingerprints and other vital information.

DINOSAURS

Take a journey to a time where large reptiles dominated the earth. Examine real fossil casts and explore the differences in the teeth of herbivorous and carnivorous dinosaurs. Students will and make a cast of a dinosaur tooth to take home.

DRY ICE CAPADES

Explore the three states of matter. Watch as the Mad Scientist turns water into ice in 30 seconds, builds a giant bubbling potion, carbonates plain drinking water and creates the same awesome smoke illusions used in the movies. Test your own Thermocolour Cup that changes colour with cold liquid.

EARTHWORKS

Find out that the earth beneath your feet is more than meets the eye in this introductory program on earth science. Uncover the forces that create earthquakes, the natural faults in the Earth's crust, and even how mountains are formed. See minerals fluoresce before your very eyes and create your own sedimentary stacker to take home.

FANTASTIC FLIERS

The Wright Brothers would be proud as we follow in their footsteps and learn the fundamental principles of flight. Build a "football" plane, control surfaces and your very own loop-flying stunt plane.

"FUN" DAMENTAL FORCES

Gravity, inertia and centripetal force. Who could ever imagine that an introduction to physics could be so much fun? We'll experience these awesome forces for ourselves and build some cool devices to watch them at work!

GET CONNECTED

Calling all Mad Scientists! This workshop deals with the science of how we communicate with one another using telecommunications. From land-lines to cell phones, learn the science behind the chatter!

GLOW SHOW

This class concentrates on how we perceive light and its effect on objects. Learn how glow-in-the-dark science works by trying out your own Glow Show Card at home.

HARNESSING HEAT

Change the state of matter of water using heat transfer blocks! Build a thermometer, and have a sand blast! Take home your very own heat sheet!

KITCHEN CHEMISTRY

Take a hands-on look at the chemistry that goes on in your kitchen. Hunt for starch, sugar and fats in foods and investigate a living organism that helps bread rise. Discover how your body uses food with your own Organ Outfit!

JUNIOR REACTORS

In this class, students are introduced to the concepts of atoms and reactions! Learn the differences between physical and chemical reactions and try more hands-on experiments. Explore how atoms join together and molecules react using an Atomic Coins kit to take home.

LAB WORKS

Students become lab scientists-in-training in this program on laboratory techniques! Each student will learn to manipulate an assortment of lab equipment in a series of hands-on activities. The students will continue lab training with their take-home Graduated Gear kit.

LIGHTS...COLOUR...ACTION!*

Uncover the hidden components in ordinary light and build a Newton colour wheel to prove it. Try on some rainbow specs, wear UV make up and see how colours change under UV light. Additional charge of \$0.75 per student for the premium Technicolour Blender take-home.

MAD SCIENCE[®] MACHINES*

Find out how simple machines make our lives easier. Try out different types of simple machines: levers, wedges, incline planes, wheels and axles, and pulleys through a variety of hands-on activities. Additional charge of \$1.25 per student for the premium Mad Science Racer take-home.

MAGNETIC MAGIC

Investigate the powers and every day uses of magnets. Test for magnetic fields. Learn how an electromagnet works and take home your own set of levitating magnets!

MINERAL MANIA

Discover planet Earth! Peek beneath the Earth's crust to discover what's inside. Recreate the process of rock formation and devise ways to classify and identify rocks and minerals.

MISSION: NUTRITION*

This workshop focuses on nutrition and fitness, including the essential components of a healthy diet and lifestyle. The children will receive a Step-O-Meter, a great fitness tool to take home and count the steps they take! Additional charge of \$0.50 per student for the premium Step-O-Meter.

MOVIE EFFECTS

Discover why science is the real star on the big screen! Explore the concept of persistence of vision and how we are able to see movies. Discover how 3-D images are made and produce a short animated scene with your own Cartoon Creator.

OPTICAL ILLUSIONS

Build your own periscope while learning about optics, reflection and sight. Use mirrors to invert images. Seeing is not always believing.

pH PHACTOR

Students explore the crazy chemistry of acids and bases in this fascinating one-hour program on the pH scale. Students are challenged to bring a mystery liquid to a perfect pH balance. The "pH Festival" ends with a stopper-popper reaction and a Reaction Tube to bring home!

ROCKET BUILDING*

Learn about the stages of the rocket as you build your very own model rocket, a great way to investigate space flight and aerodynamics! An additional charge of \$2.50 per student for the premium Sky Blazer rocket take-home.

ROCKET DEMO & LAUNCH

Discover the dynamics of rocket flight. Touch and feel our scale rockets while learning HOW and WHY they fly. Take part in a NASA-style launching of a model rocket which soars up to 300 feet into the air and then returns to earth by parachute. **Rocket launches cannot take place within 9 km of Windsor Airport.**

SCIENCE OF MAGIC

Magic? No...it's science! You'll learn the secrets behind famous magic that you can recreate for yourself! Mother Nature has some tricks of her own and we'd like to show you what's up her sleeve! Take home your own Curious Cube to make things appear and vanish.

SCIENCE OF TOYS

Did you know that some of your favourite toys work using basic science principles? Use bouncing balls, yo-yos and other classic toys to discover the science of motion through fun hands-on activities. Find out how cool vector toys and string things work. Take home your very own Mad Science® yo-yo.

SLIME TIME

Explore the exciting world of polymers, the chemical reactions we use to create them. Transform two regular liquids into an oozing batch of your very own slime and then enter your polymer in the Slime Olympics!

SONIC SOUNDS

Discover sound, sound waves and the way household items can be used to create movie sound effects. Use your own Sonic Horn to have a blast experimenting with sounds!

SPACE...THE FINAL FRONTIER

These are the voyages of young inquiring minds on a quest to discover Space! Their mission: to take an exciting look at planets, moons, comets and the stars...to boldly go where bright young minds love to go (space suits not required)!

SUN SMART

This workshop will educate younger children about the power of the sun and the need to protect themselves from the sun's radiation. They will learn that the ozone layer is our first line of defense against ultraviolet (UV) radiation and the differences between visible and invisible light.

SUPER STICKY STUFF

Children will get stuck on science with examples from nature and the Mad Science lab! Perform experiments with a Professor Beakerdude kit, a set of reusable adhesives and a beaker to take home.

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 structures, including your own Bridge Basics kit!

TANTALIZING TASTE

Are you a super-taster? Find out through experiments with flavoured drink crystals to test your sense of smell and taste. Conduct your own Taste Test to see how sight and smell contribute to the experience.

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!

WACKY WATER

Simulate the effects of an ocean oil spill and develop creative techniques to clean it up! Learn about water, waves and the environment and challenge your skills with your own Rescue Diver.

WATTS-UP

Learn about static electricity, its properties and its role in natural phenomena. Make indoor lightning while conducting hair-raising experiments with our electro-static generator. Take home your own static stick!

WEATHER

Welcome to the wild world of weather! Investigate why it rains, what causes lightning and even how weather can be predicted via a science called meteorology. Learn about the Sun's energy and ultraviolet (UV) radiation and make an UV detector to take home.

WORMS

Welcome to the world of worms! Children will use magnifying glasses to explore the fascinating life of a worm! We will leave your class with its very own wormery!

Workshops marked with an asterisk (*) have an additional materials fee. Please call for more details.

All of the workshops above are 60 minutes in length and most are appropriate for Grades 1 to 6. Some topics are suitable for Grades 7 and 8. Most workshops include Pre and Post Resource Materials for the teacher.

Ask about our "Workshop of the Month" specials! After School Partner Schools always get the "Workshop of the Month" pricing.

**BOOK YOUR WORKSHOP TODAY!
CALL MAD SCIENCE® OF WINDSOR
AT (519) 256-6094.**

www.madscienceofwindsor.com

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