



Examining nature's creatures in *Animal Coverings and Adaptations*

## KINDERGARTEN WORKSHOPS

### BACKYARD BUGS\* KINDERGARTEN

'Bee' an entomologist! Meet the insect family and discover their unique anatomy. Develop a new appreciation of bugs by investigating how bugs behave, eat, see and hear. Help a butterfly play hide and seek using camouflage. See the world through the eyes of a dragonfly. Identify interesting backyard bugs and make and take an insect home.

### I CAN BE A SCIENTIST\* KINDERGARTEN

Become a working scientist! Dig for dinosaur bones and make a fossil as a paleontologist. Explore the weather as a meteorologist while making it rain in the classroom. Become an astronomer and discover the big dipper in our constellation tent. Use a lab coat and safety goggles to find the solution as a chemist in the lab!

### SIMPLY MARVELLOUS MACHINES\* KINDERGARTEN

Discover how often you use simple machines in everyday life! Find simple machines at the playground as you slide down an inclined plane, dig with a wedge and make a teeter totter to take home. Explore how to make bubbles using gears; discover that wedges have edges; and investigate the mechanical advantage of using levers.

### THERE'S NO PLACE LIKE HOME!\* KINDERGARTEN

Follow the footprints and other clues to find the home of the mystery animal! Develop a life-long respect for the environment by learning about a variety of habitats. Build a nest in a tree using just your beak. Slither like a snake or dig like a mole through your underground tunnel. Discover why your home is salty if you live in the sea!

## GRADE ONE WORKSHOPS

### ANIMAL COVERINGS AND ADAPTATIONS EARTH AND SPACE SYSTEMS

Gather around to pet a skunk and other interesting North American mammals! Investigate the insulating properties of a variety of animal coverings and discover some of the amazing adaptations animals use to survive seasonal changes. Use a microscope to explore some of nature's most unusual coverings including quills, shells, scales, feathers and fur!

### ENERGY MAKES IT HAPPEN MATTER AND ENERGY

Investigate the power of the sun as you explore the impact energy has on our daily lives! Make a bubble grow using heat as you investigate thermal energy. Make your own bracelet that will tell you if you should be wearing sunscreen. Discover what dinosaurs and your car have in common. Uncover your inner Picasso and create abstract paintings using solar power!

### KITCHEN CHEMISTRY FOR CURIOUS KIDS SPECIAL INTEREST

As food scientists, savour the science behind baking bread! Find out why yeast rises. Investigate the chemistry behind baked goods as you blow up a balloon without using air. Do the molecule dance to learn about the three states of matter and how solids, liquids and gases move. Test your powers of observation by participating in our taste test dare to drink a chemical concoction you make!

### STRUCTURES: UNDER CONSTRUCTION STRUCTURES AND MECHANISMS

Join our engineering team and build a structure capable of supporting your teacher! Discover the concepts you will need to make this happen. Explore the role of fasteners and the properties of materials using real tools. Test three-dimensional shapes for structural strength. Investigate form and function with familiar playground structures. Build a framework and test your own tower of stability!

## GRADE TWO WORKSHOPS

### ANIMAL COVERINGS AND ADAPTATIONS LIFE SYSTEMS

Gather around to pet a skunk and other interesting North American mammals! Investigate the insulating properties of a variety of animal coverings and discover some of the amazing adaptations animals use to survive seasonal changes. Use a microscope to explore some of nature's most unusual coverings including quills, shells, scales, feathers and fur!

## KITCHEN CHEMISTRY FOR CURIOUS KIDS SPECIAL INTEREST

As food scientists, savour the science behind baking bread! Find out why yeast rises. Investigate the chemistry behind baked goods as you blow up a balloon without using air. Do the molecule dance to learn about the three states of matter and how solids, liquids and gases move. Test your powers of observation by participating in our taste test and dare to drink a chemical concoction you make!

### LET IT FLOW: AIR AND WATER EARTH AND SPACE SYSTEMS

Discover the properties of air and water and the need to protect these valuable resources! Learn that air has weight, takes up space and use it to save an accident victim. Explore the water cycle through drama. Uncover the hidden power in a water wheel and race your own boat to investigate the impact of sail size.

### LOOKING AT LIQUIDS MATTER AND ENERGY

Marvel as you explore the three states of matter, change a liquid to a solid and then eat it! Become a thermometer and investigate the conditions necessary to produce a change in state. Discover what an orange and hockey puck have in common while exploring buoyancy and how to increase it. Explore how different states of matter interact while investigating solubility and take up the challenge to produce the world's biggest bubble!

### MATH: IT COUNTS! MATH

Open your own bank account and earn money while learning about place value, currency and Venn diagrams. Practice telling time on both digital and analogue clocks. Explore fractions while performing a classroom play. Try and trick your teacher as you re-organize yourselves by a mystery attribute. Become a banker, a storekeeper and a shopper as you add up your money, make change and calculate your spending power!

### MOVE IT! STRUCTURES AND MECHANISMS

As masters of all that move, discover how simple machines make work easier! Motor along as you construct your own car while exploring wheels and axles. Go fishing to experiment with levers. Investigate wedges to discover what doorstops and airplanes have in common. Make your own screw and drive a car to learn about inclined planes.

## HOW TO BOOK A WORKSHOP

**Subsidized Workshop Fee: \$169**  
(Valid from September 2011 to June 2012)

**Choose your topic:** We have something for everyone: topics which enrich the Science and Technology, Kindergarten or Math Curriculum; special interest topics; and workshops which are ideal for combined-grade classes. For your convenience, workshop descriptions are organized by grade.

**Request your workshop:** We accept workshop requests throughout the year. Book on-line at [www.scientistsinschool.ca](http://www.scientistsinschool.ca). You will receive a confirmation email acknowledging receipt of your request. Or fax/mail a completed booking form, found at the back of this catalogue.

**ALLERGY ADVISORY:** Our workshop kits contain a wide variety of diverse items and are handled by many students. While we regularly maintain our kits for cleanliness and safety, we cannot guarantee they are free from all allergens. Please advise us of any known allergies in your classroom or special restrictions in your school.

**Send in your deposit:** A \$25 deposit per workshop is required to process your request. Please send in your deposit cheque by mail attached to your booking form, or if booking online, attached to your email confirmation. An invoice for the balance of the workshop fee will be sent to your school following completion of your workshop. Please visit our website for booking terms and conditions.

**Reserve your date:** A presenter will contact you to schedule a specific date for your workshop

- at the beginning of September if your request was received during the summer months
- within 3-4 weeks of receipt of your request during the school year

**Please do not hesitate to contact us at any time to check the status of your request. Thank You!**

## SCIENTISTS IN SCHOOL

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