

## ECO LEXICON

*'Brought to You by Chamber of Eco Commerce'*

**Science Project Kits for Children and Youth**  
**Made in USA**



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With the **Easy Going Green Flashcards** you'll be able to teach the children in your life about being environmentally friendly. By learning and building habits at a young age, kids are more likely to implement the eco friendly tips throughout the rest of their lives, which will reduce their generation's environmental impact (and if they live with you - your bills!). These cards are truly a great resource for anyone, because you're never too old to learn something new!

**Why we love the Easy Going Green Flashcards:** With colorful, hand-drawn illustrations these cards give great eco-friendly information in bite-size quantities, which makes it easy to learn one or more items at a time, depending on your schedule. The cards are made from recycled paper, and are made in the USA.

**Why you'll love these educational Flashcards:** Your kids will learn environmentally-friendly activities, and ways to be more "green" as an individual and as a family. The cards are great for parents, teachers, or anyone who has kids in their lives. Plus there are 52 cards in the pack - one for each week of the year!

**Features:** 52 flashcards; Packaged in a reusable muslin bag; Cards are made from recycled paper from sustainable forests and printed with vegetable inks; Hand-drawn, brightly-colored, eye-catching illustrations; Cards have catchy, age-appropriate poems as well as tips; The simple tips are easy for kids and adults to learn; A portion of the proceeds from each flashcard package will go to helping communities make green changes; Created with parents, families, teachers, and kids in mind.

**Dimensions:** Cards (Length: 7.5 inches and Width: 4.3 inches), Total size when packaged in the cloth bag (Length: 9 inches and Width: 5.5 inches).

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**The Global Warming Experiment Kit** gives you the basic knowledge you need to understand the climate, why it changes, and how our actions affect it. Learn about Earth's climate system, weather, and atmosphere by conducting experiments with a model Earth and atmosphere. Learn how human activity influences the climate with experiments involving carbon dioxide and the greenhouse effect. Investigate the potential consequences of global warming on humans, ecosystems, and the world's economies. Learn what we can do to protect the climate!

**Why we love this science kit:** This kit is both fun and educational. A full-color, 48-page manual guides you through 23 hands-on experiments to introduce you to the Earth's climate and the issue of global warming.

**Why you'll love this educational kit:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about global warming and the Earth's climate.

**Included:** All the pieces for 23 different projects; A 48-page, full-color experiment manual.

**Specifications;** Ages 10 and up. Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas:** Kids (10+), Teachers, Adults, Parents, School volunteers, Science fair.

## ECO LEXICON

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**The Hydropower Renewable Energy Science Kit** is an awesome way to teach or learn how to extract energy from moving water. You can explore the power of water by building models and conducting experiments. Learn how different devices are used to extract useful energy from moving water. Investigate the intriguing properties of water by performing experiments involving surface tension, adhesion, and cohesion. Learn about water pressure and generate electricity through multiple building projects. Learn about where the energy in ocean waves, tides, and rivers comes from, and discover how we can generate electricity from them!

**Why we love this educational science kit:** This kit is both fun and educational. A full-color, 32-page manual guides you through 30 different experiments and 10 separate building projects to help you discover the power of water.

**Why you'll love these experiments:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about the intriguing properties of water.

**Included:** Pieces for 10 different building projects; A 32-page, full-color experiment manual for 30 different experiments.

**Specifications:** Ages 8 and up. Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas:** Kids (8+), Teachers, Adults, Parents, School volunteers, Science fairs.

## ECO LEXICON

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**The Power House Green Essentials Kit** is an awesome way to teach or learn about sustainable living. The kit comes with all the pieces to build a sustainable home model, and a guide to help you do 30 experiments on the home. You can build ten different energy projects with this kit.

**Why we love the Power House Green Essentials Kit:** This experiment kit is both fun and educational. Unlike other kits, once you build this home, you aren't done! A 64-page, full-color manual guides you through 30 experiments. The manual also teaches everything you'd want to know about various sustainability topics.

**Why you'll love the Green Essentials kit:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about sustainability.

**Included:** All the pieces for 10 different building projects; A 64-page, full-color experiment manual (includes both English and Spanish)

**Specifications:** Ages 10 and up

Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

Application Ideas: Kids (10+), Teachers, Adults, Parents, School volunteers, Science fairs.

**WARNING:** This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

## ECO LEXICON

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**The Wind Power Renewable Energy Science Kit** is a great way to learn about renewable energy and wind power. You can build your own working wind turbine, and then conduct 20 different experiments. The kit comes with the pieces to build a turbine, and a 32-page, full-color experiment manual which tells you everything you need to know about wind power, and guides you through your turbine experiments.

**Why we love this wind power experiment kit:** This kit is both fun and educational. The turbine, once built, actually works. Its electricity can charge a rechargeable battery or light up an LED. Unlike other kits, once you've built the turbine there's still more to do! With 20 guided experiments you can keep playing and learning.

**Why you'll love this renewable energy science kit:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about wind power.

**Included:** 115 pieces for conducting 20 different experiments; 32 page, full color experiment manual to guide you through building a working wind turbine; harnessing mechanical energy to lift weights; generating electricity to light an LED and charge a battery; learning the physics of wind turbines; discovering how wind occurs and why it is such a promising energy source.

**Specifications:** Ages 8 and up. Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas:** Kids (8+), Teachers, Adults, Parents, School volunteers, Science fairs.

# ECO LEXICON

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**The Wind Power 2.0 Renewable Energy Kit** is a great way to learn about wind power and how it can be used in practical applications. You can build two of your own working wind turbines, conduct various experiments, and build six different model vehicles to be powered by your miniature turbines! This kit includes a 40-page, full color instruction book with illustrated step-by-step instructions for assembling your two windmills and six model vehicles, and conducting various experiments.

**Why we love this science kit:** This kit is both fun and educational. Building two wind-powered generators lets you charge rechargeable batteries, which you can use to power the model vehicles you build. The six models include a glider, sail car, jet car, tractor, race car, and tricycle.

**Why you'll love this wind energy experiment kit:** Some people excel through hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about wind power. This kit includes two styles of wind turbine blades and a gearbox with three different gear ratios for experimenting. Explore this amazing, free source of renewable energy and store the electricity you generate for use in practical applications!

**Included:** 133 building pieces, which are compatible with all Thames & Kosmos Construction Series kits, Physics Series kits, Wind Power, and Hydropower kits 40 page, full color manual to guide you

**Specifications:** Ages 8 and up. Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas:** Kids (8+), Teachers, Adults, Parents, School volunteers, Science fairs.

## ECO LEXICON

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**The Solar Power Model Kit** is perfect for teaching and learning about solar energy. The kit guides you through building six different solar-powered vehicles, and when you're done with those, you can design your own models! Let the sun power your toys to learn how renewable energy can be used day-to-day to power our lives.

**Why we love this solar science kit:** This kit is both fun and educational. Unlike other modeling kits, once you build the 6 different model vehicles, you aren't done! You can use all of the same parts to design your own vehicles. Plus, the pieces included in this set are compatible with all Thames & Kosmos Construction Series kits, Physics Series kits, Wind Power, and Hydropower kits.

**Why you'll love this renewable energy kit:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about solar energy. The special solar panel in this kit consists of three solar cells and generates 1.5 volts of electricity in bright sunlight, like a AA battery. A unique cradle holds either the solar panel or a AA battery, allowing you to switch out the solar panel for a AA battery (not included), depending on the strength of sunlight. You can even use the solar panel to charge up your own rechargeable AA batteries. The solar panel is positionable, so you can maximize its exposure to the sun to generate the most power.

**Included:** 177 separate building pieces for 6 different projects; A 24-page, full-color manual to guide you through building the models.

**Specifications:** Ages 8 and up. Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas;** Kids (8+), Teachers, Adults, Parents, School volunteers, Science fairs.

# ECO LEXICON

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**The Solar Power PLUS Model Kit** is perfect for discovering how solar cells generate electricity. The kit guides you through building twenty-two different solar-powered models, and when you're done with those, you can design your own models! With this kit, you can learn or teach the basic concepts of solar energy, photovoltaics, and circuits, as well as problem solving skills and creative thinking. Let the sun power your toys to learn how renewable energy can be used day-to-day to power our lives.

**Why we love this expanded science kit:** This kit is both fun and educational. Unlike other modeling kits, once you build the 22 different models, you aren't done! You can use all of the same parts to design your own vehicles. Plus, the pieces included in this set are compatible with all Thames & Kosmos Construction Series kits, Physics Series kits, Wind Power, and Hydropower kits.

**Why you'll love this renewable energy solar kit:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about solar energy. Two special solar panels in this kit each consist of three solar cells. When linked together in series, they generate up to 3.0 volts of electricity in bright sunlight, equivalent to two AA batteries. Two unique cradles hold either the solar panels or batteries, allowing you to switch out the solar panels for two AA batteries (not included), depending on the strength of sunlight. You can even use the solar panel to charge up your own rechargeable AA batteries. The solar panels are positionable, so you can maximize their exposure to the sun to generate the most power.

**Included:** 265 separate building pieces for 22 different model-building projects; A 48-page, full-color manual to guide you through building the models.

**Specifications: Ages 8 and up.** Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas:** Kids (8+), Teachers, Adults, Parents, School volunteers, Science fairs.

# ECO LEXICON

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**The Power House Experiment Kit** is a great way to teach or learn about renewable energy. It provides an engaging introduction to regenerative energy sources while teaching basic concepts and principles in physical science. The kit focuses on heat and light energy from the sun, energy from the wind, as well as electrochemical and plant energy. You will learn how to transform and use all of these forms of energy!

**Why we love this educational kit:** This kit is both interactive and educational. The 96-page, full color manual has 70 different experiments and 20 separate building projects, organized into nine chapters! Plus, the Power House Experiment Manual is much more than just a set of instructions. The manual is organized around the story of a group of island dwellers who must learn to live sustainably using the resources available to them on their small island. By following their journal, you learn how to experiment with the kit!

**Why you'll love this educational project:** Some people excel with hands-on learning. This kit is great for kids, parents, teachers, and anyone who wants to learn (or teach) about renewable energy and sustainability. With the Power House Kit you can build a model house complete with solar panels, windmill, greenhouse, and desalination system. You can build and operate an electric train, windmill, solar cooker, solar hot water tank, hygrometer, electric motor, power hoist, sail car, and more! The thoughtfully designed series of experiments was developed by physicist Uwe Wandrey. Professor Wandrey creatively integrates physical science and technology lessons with the adventure of building a home and living on a remote island.

**Included:** A 96-page, full-color manual to guide you through 70 different experiments; All the pieces for 20 different building projects, including: foam house and plastic greenhouse parts; frame; base; wood glue; solar panel; compass; wire; LED (light emitting diode); battery holder; small light bulb and holder; solar motor; magnifying glass; propellers, iron core; ring magnet; thermometer; test tube holder; measuring beaker; sand paper; copper foil; zinc plate; wire mesh; many small parts such as paper clips, screws, clips, lead sinker, washers, wing nuts, iron powder, wires, tubing, rubber bands, yarn, wooden components; cutouts for devices.

**Specifications:** Ages 12 and up. Caution: not for children under 3 years. Small parts are a choking hazard. Keep this kit away from small children.

**Application Ideas:** Kids (12+), Teachers, Adults, Parents, School volunteers, Science fairs.

**WARNING:** This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

## ECO LEXICON

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### Hydrad BioSand

Unsafe water affects more children worldwide than AIDS and cancer combined. At least 3.5 million people worldwide die each year from drinking unsafe water. Hydrad BioSand is a simple filter with no moving parts that combats the leading causes of death and disease in the developing world by reducing parasites, bacteria and viruses found in contaminated water. One filter is designed to deliver safer water for a family for more than 10 years. This demo unit of the Hydrad BioSand is the perfect piece to assist you in raising awareness about this problem.

**Why we love the demo filter:** The Hydrad BioSand Water Filter Demo Unit is a perfect replica of the actual product. It gives you exactly the information you need to understand how the real filter works and it's the perfect display for your classroom or events.

**Why you'll love the demo Hydrad BioSand filter:** Are you already involved in creating awareness about the unsafe water in the world? Are you interested in getting involved? The Hydrad BioSand Water Filter demo unit offers you the opportunity to help put an end to this worldwide epidemic.

**Application ideas:** Fundraising: To help with fundraising, this lightweight demo filter is easy to carry and display in a group or classroom setting. Show how the filter works at your event.

### Becoming familiar with the filtration system

#### Specifications.

Intended Use: This is a Demonstration Unit only.

It does not include filtration media and is not intended for installation.

Construction: UV resistant, medical-grad plastic FDA approved materials.

Dimensions: Height: 30.5 inches;

Diameter: 16.5 inches

Weight: Empty: 8 lbs.

#### Links

[www.FreshWaterAlert.com](http://www.FreshWaterAlert.com)

[www.LetCleanWatersFlow.com](http://www.LetCleanWatersFlow.com)

**Contact your local Chamber of Eco Commerce or email us:**

[info@ChamberofEcoCommerce.com](mailto:info@ChamberofEcoCommerce.com)