Hawaiian Electric

Teachers Resource Center Request Form

Hawaiian Electric's Teachers Resource Center provides educators with free literature to make learning about electricity-related topics such as renewable energy, energy conservation, and electrical safety engaging and fun! Please complete this form and email it to **cetemp@hawaiianelectric.com**.

A. Requestor Name:

First Name | Last Name

B. School or Organization:

School Name

Grade | # Students

C. O'ahu Mailing Address:

Street # | Street Name | Unit / Apt. #

City | State (HI) | Zip Code

D. Contact Information:

Phone ( ) - -

Alt Phone ( ) - -

Email

Note: Large quantities of booklets will need to be picked up from the Hawaiian Electric office downtown at 1099 Alakea St. (across from Iolani Palace) or from our Waiau or Kahe Power Plants. Two (2) weeks advanced notice is required for pick-up at the power plants.

Basic Electricity

ELECTRICITY WORKS FOR US – GRADES 2-4

Colorfully illustrated booklet with activities teaches students about what items use electricity, how to conserve electricity and what renewable energy is. Fill-in-the-blank game introduces the reader to the history of electricity. Safety messages include kite flying, metallic balloons, not playing on pad-mount transformers and what trees should never be played on. (6pp.; Subject Areas: Science, Social Studies, History)

EXPERIMENTS TO EXPLORE ELECTRICITY - UNDERSTANDING ELECTRICITY AND ELECTRICAL SAFETY – GRADES 3-6

Learn the basics of electricity and electrical safety with fun activities, and conduct engaging, hands-on experiments that help explain how electricity works. Experiments include completing a circuit with a battery and light bulb, making a simple switch, identifying conductors and insulators and discovering why short circuits get hot. (16pp.; Subject Areas: Science, Social Studies)

ELECTRICITY FLYER BY HAWAIIAN ELECTRIC – GRADES 3-12

Easy to understand artwork explains how electricity is made and distributed. Artwork also depicts the various types of renewable energy. (2pp.; Subject Areas: Science)

THE SCIENCE AND ENGINEERING BEHIND THE ELECTRIC GRID – GRADES 5-12

This comprehensive booklet covers everything from the creation of electricity to discussion on today's modern grid. Covers what electricity is made of, how it is created through renewable and non-renewable resources and how it moves through wires to its destination. Reviews how a generator works, power plants operate, and provides good insight into transmission lines and electric meters. Provides electrical safety measures and information on emergency preparedness and covers careers in the electrical utility. Student learning is reinforced through provided experiments and interactive games. (24pp.; Subject Areas: Science, Social Studies, Career and Technology Education and Guidance)

Electrical Safety

MY BOOK ABOUT STAYING SAFE AROUND ELECTRICITY – GRADES K-1

A coloring and activities booklet to help students gain a healthy respect for the awesome power of electricity. It shows them how to avoid potentially dangerous situations and stay safe indoors and out. (16pp.; Subject Areas: Art, Science, Social Studies)

AUNT SARAH AND THE AMAZING POWER – GRADES K-2

This beautifully illustrated tale about three lovable kittens introduces the benefits of electricity and electrical safety basics. Read this age-appropriate booklet aloud to early readers while they follow along in their own booklets. Encourage them to take it home to read to their parents and siblings. Help young students learn how they and their families use electricity every day and how to use it safely. (32pp.; Subject: Science, Social Studies)

WE CAN STAY SAFE AROUND ELECTRICITY W/ STICKERS – GRADES K-3

This friendly, age-targeted book lets children know how electricity works, why it's important -- and that it can harm people unless it's treated with respect. Coloring pages, puzzles, and other activities engage children as they learn important lessons about staying safe around electricity inside and outside the home. The colorful stickers reinforce the safety messages and make learning fun!

ABOUT ELECTRICAL SAFETY – GRADES 1-4

After getting a quick science lesson about conductors, insulators, and grounding, children dive into puzzles and games that yield the facts about electrical safety - indoors and out. They learn to stay away from plugs, switches, fallen power lines, substations, transformers, and other hazards. (12pp.; Subject: Science, Social Studies)

ELECTRICAL SAFETY AND YOU – GRADES 2-4

This coloring book explains what electricity is, how it works inside the house, and how to use it safely. Home safety, safe use of appliances, and precautionary tips for playing safe outside are included. (16pp.; Subject Areas: Science, Social Studies)

STAY SAFE AROUND ELECTRICITY – GRADES 3-6

This booklet covers electrical safety around substations, power lines, transformers, wiring and appliances. Includes a safety audit for children to complete with parents at home. (16pp.; Subject Areas: Science, Social Studies)

ELECTRICAL SAFETY WORLD – GRADES 4-6

This booklet covers not only the basics of electricity and safety, but renewable resources, the flow of electricity (with experiment), discusses insulators and conductors, and also includes a real-life testimonial on electrical safety. (16pp.; Subject Areas: Science, Social Studies)

THE SHOCKING TRUTH (CIRCUITS) – GRADES 4-6

Inspire students' interest in electrical safety and science with this outstanding discovery work booklet. It teaches how to assess risk and avoid accidents in a magazine-style format that appeals to older kids through real-life stories.

SCIENCE AND SAFETY OF ELECTRICITY – GRADES 6-8

This safety guide is packed with games, quizzes, up-to-the minute facts, personal stories, for kids and teens.

ELECTRICAL SAFETY AT HOME AND WORK – GRADES 7-12

Informs students about how to take precautions and avoid electrical accidents at home (indoors and outdoors) and on the job. This booklet features personal stories that bring hazards to life and help students remember to take the actions that will keep them safe. (15pp.; Subject Areas: Science, Social Studies)

OUTDOOR ELECTRICAL SAFETY AND YOU – GRADES 9-12

Full-color photos illustrate at a glance what to do and what NOT to do to stay safe when working outdoors.

Energy Conservation & Efficiency

ADVENT CALENDAR BE AN ENERGY SAVER – GRADES K-6

Go from room to room to learn how you can help save energy! Open one door each day or week.

ELECTRICITY IN HAWAII – GRADES 1-2

Young students learn the basics of electricity like what terms use electricity, what sources make electricity (including renewable energy sources) in a colorful workbook containing charts, crossword puzzles and matching exercises. Subjects also include electrical safety and energy conservation. (8pp.; Subject Areas: Science, Math)

KNOW WHAT? WE CAN SAVE ELECTRICITY – GRADES 1-3

Learn how to save electricity through a this or that comparison, maze, and decoding sentences activities. Wrap it all up with a personal pledge about how you will save electricity.

MAKA SUPER ENERGY SAVER – GRADES 3-6

Battle the energy villains and learn how to save both electricity and money. The energy conservation messages are especially important to learn while we spend all our time at home.

Renewable Energy

KNOW WHAT? WE KNOW ABOUT RENEWABLE ENERGY – GRADES 1-3

Fun activities encourage readers to learn about the different types of renewable energy and how it helps our environment. (12pp.; Subject Areas: Science, Social Studies)

YOUR RENEWABLE ENERGY WORLD – GRADES 4-6

Help kids become smart energy users who "get" how our energy choices affect climate change and natural resources. Using this activity book, kids will discover why fossil fuels can no longer serve all our energy needs; explore renewable energy resources (solar, wind, hydro, ocean, biomass, geothermal); investigate the advantages and challenges of these renewable resources; build their energy vocabulary; and learn how to save energy at home. (16pp.; Subject Areas: Science, Social Studies)

WHO KNEW? THE RENEWABLE ENERGY ISSUE – GRADES 4-6

Enlighten students about energy sources, how they power our world, and why conservation is vitally important. Discusses renewable versus non-renewable energy sources and emphasizes our need to reduce our use of fossil fuels. Provides an overview of various renewable energy sources and includes tips on how to conserve energy and protect the environment.

WHAT'S UP WITH RENEWABLE ENERGY SOURCES – GRADES 7-10

An energetic workbook teaches teens about renewable energy sources and why they're so important! Explains the benefits and challenges associated with several different renewable energy sources, including solar energy, wind energy, biomass, hydropower, and geothermal energy. Includes a quiz about energy conservation, and an energy-saver challenge to drive home the point that no matter what type of energy you use, it's important to do so wisely! (24pp.; Subject Areas: Science, Social Studies)

ON RENEWABLE ENERGY – GRADES 10-12

Learn about renewable energy sources and why they're so important! Explains the technology, the location, the benefits and challenges and future outlook associated with several different renewable energy sources, including solar energy, wind energy, biomass, hydropower, and geothermal energy. (24pp.; Subject Areas: Science, Social Studies)

Careers

KNOW WHAT? LEARN ABOUT CAREERS – GRADES 1-3

Students learn about the wide world of career opportunities open to them and the skills required for various careers. This interactive booklet links the child's interest with their areas of strength. Includes a family activity page to promote family discussion of the issue. (12pp.; Subject Areas: Career, Guidance, Social Studies)

☐ **ON ENERGY CAREERS – GRADES 9-12**

Interactive workbook provides explanations of the different types of energy sources (traditional and renewable) and career opportunities in each energy source (like hydro, geothermal, biomass, wind, and solar power). Checklists help identify student interests and worksheets allow them to discover if a career in the energy industry is right for them. (24pp.; Subject Areas: Career & Technology Education, Guidance, Science, Social Studies)

Posters (2 per classroom)

☐ **WIND ENERGY POSTER – GRADES 1-6**

Wind energy has been an important energy source for many years. This poster is a great way to learn about the history of wind energy and where it is today. Its reverse offers supplemental information for student learning activities as well as career opportunities.

☐ **WHERE THE LITTLE LIGHT BULB GETS ITS JUICE POSTER – GRADES 1-6**

A fun, eye-catching poster explains in simple-to-understand cartoon drawings, how a power plant generates electricity and distributes it over to the power lines to our homes. A teacher's guide is included on the back of the poster.

☐ **BRIGHT WAYS TO SAVE ENERGY POSTER – GRADES 4-12**

Inspire students to be Bright Kids by saving energy in their own home. The front of the Bright Ways to Save Energy Poster illustrates dozens of colorful examples on ways students can apply simple tasks they learned in the classroom to save energy and use it wisely. To learn how to conserve more energy, apply the 40 tips on the back of the Bright Ways to Save Energy Poster to become more energy efficient. Even the little tasks can help save our planet by conserving natural resources. Have the students do the Energy Action Search Activity and see how well they can utilize energy-wise behaviors.

☐ **ELECTRICAL GENERATION POSTER – GRADES 4-12**

A wall poster showing electricity generated from a fuel source to the transmission and distribution to homes and offices. Reverse side of the poster provides teachers with more information and experiments to use in the classroom.

☐ **SOLAR ENERGY POSTER – GRADES 5-12**

This poster is an excellent tool to learn about solar energy and its uses in solar thermal, design, electricity, photovoltaics and energy. Its reverse offers supplemental information for student learning activities as well as a solar power timeline.

Please save completed form and email to **cetemp@hawaiianelectric.com**.