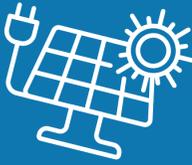


Empowering Communities Through Education

A 4th-Grade Afterschool Curriculum



History

- 2019 STEAM Expo
- 2020 Pandemic
- 2024 Relaunch

Goals

- Nurturing interest in energy
- Inspiring conservation practices
- Expand community reach

Program

- Who: 4th Graders
- What: Energy Curriculum
- Where: Elementary Schools
- When: After School
- How: With SCUSD

1

Energy Basics & Types of Energy

Lesson Plan: Brief history, and energy use at home.

Activities: Ice breaker (energetic introduction), energy history animation, classroom energy audit.

Take Home Assignment: Home energy audit with watt meter.



2

Conservation vs Efficiency

Lesson Plan: Conservation basics, identify energy efficiency opportunities, global conservation efforts.

Activities: Conservation scenarios, student presentation, guess the picture.

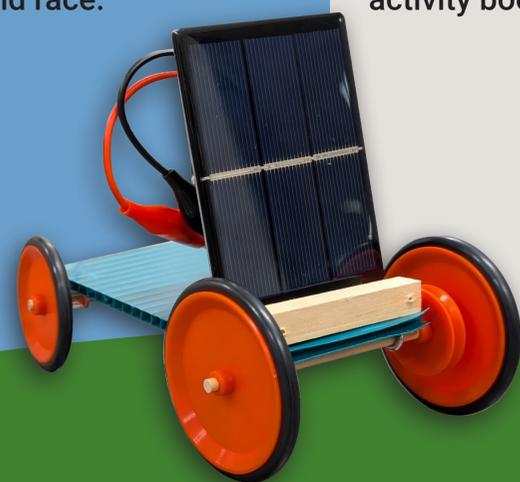
Take Home Assignment: Interview someone or research about a successful energy conservation/efficiency effort.

3

Renewable Energy

Lesson Plan: Overview, opportunities and challenges of renewable energy.

Activities: Solar car kit, design contest and race.



4

Review

Lesson Plan: Q&A full review of all lessons emphasizing good test taking skills.

Activities: Energy origami, activity book.



Student artwork depicting how a TV timer can prevent energy waste.

Takeaways

- Logistical challenges
- Timing of program delivery
- Interactive activities increase student engagement



Powering The Center of What's Possible