

Daily Energy Calculator

Energy Production and Transmission

Description

In this interactive activity, students will learn about the electricity they use each and every day. They'll learn about wattage, electrical costs, and explore the amount of electricity consumed by common household electronics. Next, they'll apply their new knowledge while designing a dream vacation at MegaWatt Mansion. But beware - every choice they make will affect the amount of electricity used at this uniquely priced vacation home.

Grade Levels

3rd - 12th grade

Subjects

Science & Math

Supplies

This activity requires a device with internet access for each student or pair of students. Students will also each need a copy of the handout.

Activity Prep

- Make 1 copy of the student handout per student or student pair.
- Preview the activity at learn.lignite.com/trainings/daily-energy-calculator.
- Post the link to the activity for easy access (Google Classroom, class webpage, etc).

Other Information

- Students may complete the MegaWatt Mansion portion of this activity multiple times to find the most reasonably priced family vacation.

Discussion

1. Ask the students if they believe it was fair to bill vacationers for the electricity they used.
2. Each kilowatt/hour of electricity at MegaWatt Mansion was \$5. Is that a reasonable price? What is the current price of electricity for a kilowatt/hour in your area?
3. Ask students if they have ever considered the financial cost of their electronics (phones, gaming systems, TVs, computers, etc.). Does anyone think they'll change their habits after this activity?