

ENERGY

Home Energy Audit

CALCULATOR

Duration: 20 min • Grades 6–8 • Facilitator-led

Overview

Students click through rooms in a virtual home, log energy use, and recommend three upgrades — with a payback calculator that connects the math to real dollars saved.

Learning Objectives

- Identify common sources of energy waste
- Use math to calculate payback and savings
- Communicate a recommendation clearly

Materials Needed

- Browser device
- Calculator (built-in)
- Recommendation write-up template

Facilitator Flow

- 1 Tour (5 min): click through five rooms and log wasteful items.
- 2 Prioritize (5 min): pick the top three to fix.
- 3 Calculate (5 min): payback period for each.
- 4 Write (3 min): one-paragraph recommendation to the homeowner.
- 5 Share (2 min): compare picks with a partner.

Want the full activity + facilitator guide?

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