

# RENEWABLE HOLIDAY LIGHTS

A **GETWISE**  STEAM Activity Sheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_

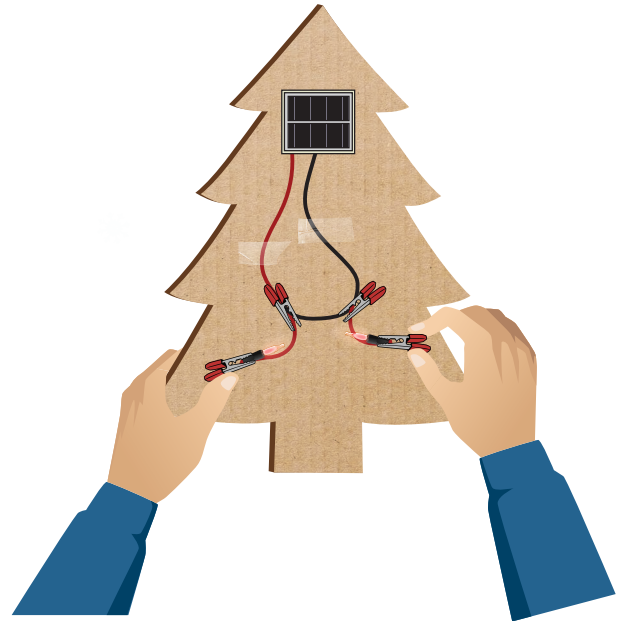
**OBJECTIVE:** Design a small solar-powered holiday decoration.

**MATERIALS:**

- Small solar panel (toy size)
- 1-2 LEDs
- Wires
- Alligator clips
- Tape
- Cardboard/recycled materials
- Scissors

**PROCEDURE:**

1. Attach wires from the solar panel to the LED terminals (use alligator clips).
2. Test your circuit in sunlight or under a strong lamp; LED should light up.
3. Build a holiday decoration (tree, star, etc.) from cardboard.
4. Attach LED and solar panel to your decoration.
5. Test and troubleshoot as needed.



**DATA/QUESTIONS:**

Did the LED light up? If not, what did you change?

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How does the amount of light affect brightness?

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How can solar power be used for more decorations?

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