

SOLAR ENERGY

AT HOME ACTIVITY

SUN-POWERED COOKING

- 1 Start by talking about using sunlight to cook food.
- 2 Explain astronauts need the Sun for cooking and electricity on the Moon.
- 3 Show lunar mission images and why solar energy is vital.

BUILD A SOLAR OVEN

- 1 Divide into groups, give each a pizza box, foil, and other items.
- 2 Tell them they're engineers making solar ovens for s'mores.
- 3 Encourage planning for sunlight capture.

COOK & LEARN

- 1 Gather and share group designs.
- 2 Discuss the importance of solar power for Moon missions.
- 3 Build the ovens, then cook snacks using sunlight.
- 4 Talk about results and why solar energy matters on the Moon.

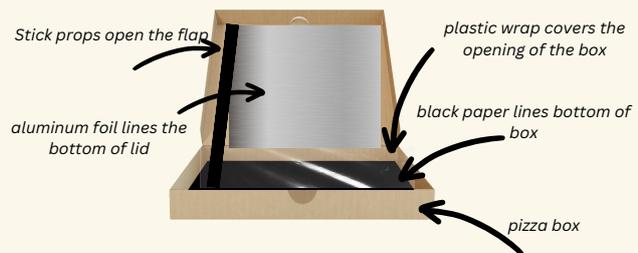


MATERIALS

- Pizza boxes (recycled or donated)
- Aluminum foil
- Plastic wrap
- Black construction paper
- Clear tape
- Scissors
- Craft knives (for parent use)
- Rulers
- Pencils
- Thermometers (at least 5)
- Cooking ingredients (e.g., marshmallows, chocolate, graham crackers)
- Stopwatch or timer

SOLAR ENERGY INSIGHTS

Solar energy is a renewable and sustainable source of power harnessed from the Sun's rays. It can be transformed into heat energy, making it an ideal candidate for eco-friendly cooking solutions. Solar ovens capture sunlight using reflective materials and convert it into heat, allowing us to cook food without the need for electricity or gas. Understanding how solar ovens work can inspire us to use clean energy and reduce our impact on the environment.



pizza box solar oven

SUN DIAL ADVENTURE

- Teach your child about sundials and how they use the Sun to tell time.
- Create a simple sundial using a stick and a paper plate.
- Place it in your yard or on a sunny windowsill.
- Throughout the day, mark where the shadow falls on the plate and note the time.
- Discuss how understanding the Sun's position helps astronauts on the Moon and Earth.

