

Lesson 4: Worksheet

Burn, Turn and Learn

For this investigation, your group will need the following materials:

- Metal coffee can with lid
- Hot plate
- One cup of water
- Scissors
- Pinwheel
- Pot holder
- Safety goggles (one per student)

To conduct the investigation:

1. Put on your safety goggles.
2. Place approximately one cup of water in your coffee can.
3. Punch a small hole in the can's lid.
4. Tape your pinwheel toy to the side of the can with the wheel extending over the top of the can.
5. Place the coffee can on the hot plate.
6. Before plugging in the hot plate, write down your predictions in Section A below for what will happen once the heat source is activated.
7. Plug in the hot plate and allow it to heat up.
8. Record your observations.

Predict- What do you think will happen once the can gets hot?

Observe- What actually happened?

Analyze- How does this demonstrate the conversion of energy?