

CHAPTER 10	Launch Lab: Bake a Cake	BLM 10.0.1
HANDOUT		

You may have heard the term *efficiency* used when talking about a car, an air conditioner, a factory, or even a person. What does efficiency mean to you? What does it mean when a process or appliance is “energy efficient?” In this Launch Lab, you will take a closer look at energy efficiency by constructing a working oven from household materials and making improvements to increase its efficiency.

Safety Precautions



- Hot and cold materials often look the same. Do not touch the oven with your bare hands.
- Your teacher may choose to carry out this investigation as a demonstration.

Materials

- light bulbs and receptacle
- retort stand
- cake mix
- disposable metal tin pans
- graduated cylinder
- lamp or flashlight
- available household materials

Procedure

1. With your group, determine how you will assess the efficiency of an oven designed to bake a very small cake by using the energy provided by a light bulb.
2. Design a procedure that will allow you to assess efficiency.

