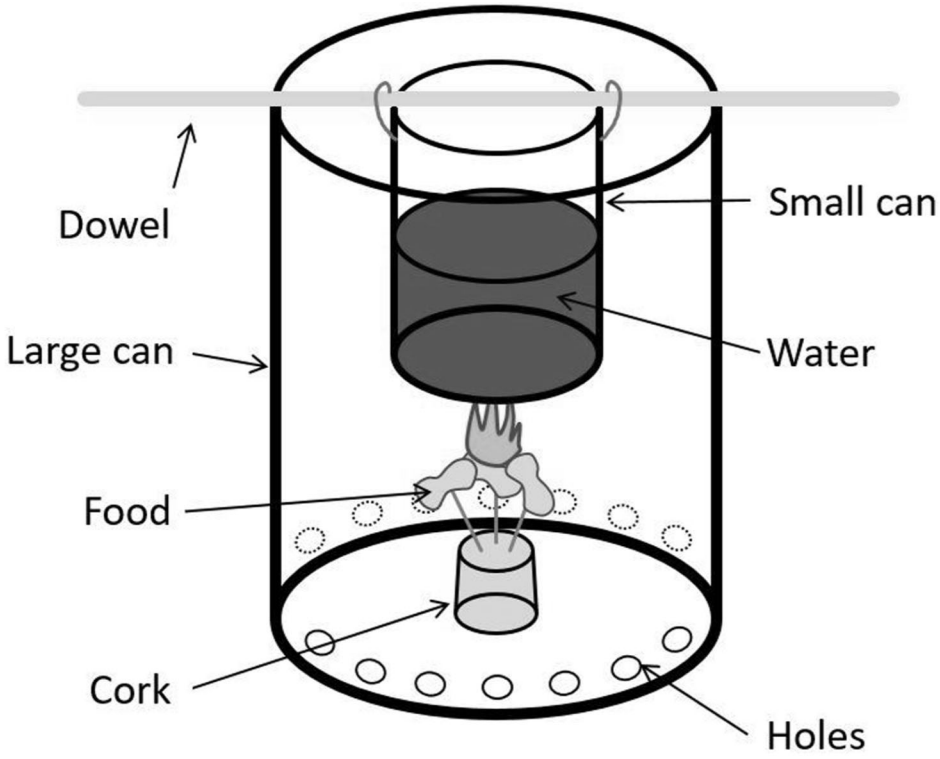
Burning Calories— Literally!

Calorimeter Assembling Instructions

Directions: Build the calorimeter as described below.

1. Use the sketch of the assembled calorimeter as a guide as you go through the directions.

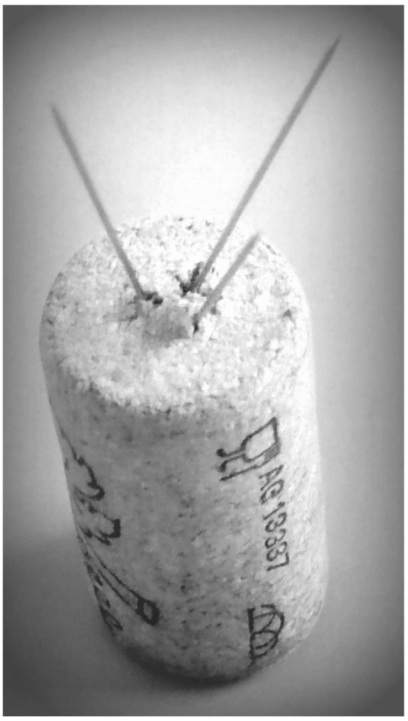


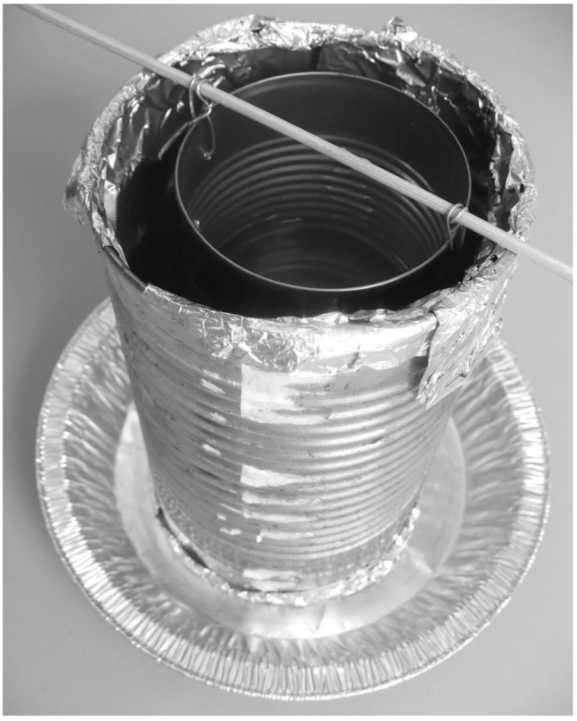
2. Locate the holes near the open end of the smaller can. Use these holes to attach the support dowel as directed in step 3.
3. Put the supporting dowel in place on top of the small can and attach it firmly with metal wire.

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Directions: Follow the steps below to finish building the calorimeter.

4. Push the blunt ends of three needles into the cork, as shown in the figure. The food to be tested will be speared on the sharp ends of the needles.





5. Assemble the calorimeter:
   a. Place the aluminum pie pan on a non-flammable surface.
   b. Put the cork with needles sticking up in the middle of the pan.
   c. Place the large metal can over the cork on the aluminum pie pan, holes facing down.
   d. Hang the small can inside the large metal can.
   e. The result should look like the one shown in the picture.
6. The smaller can will hold the water to be heated by burning the food samples. Use a graduated cylinder to measure how much water fills the small can about half-full.