

Chapter 10: Energy Balance



FoodMASTER

Food, Math, and Science Teaching Enhancement Resource
Supported by NIH Science Education Partnership Award (SEPA)





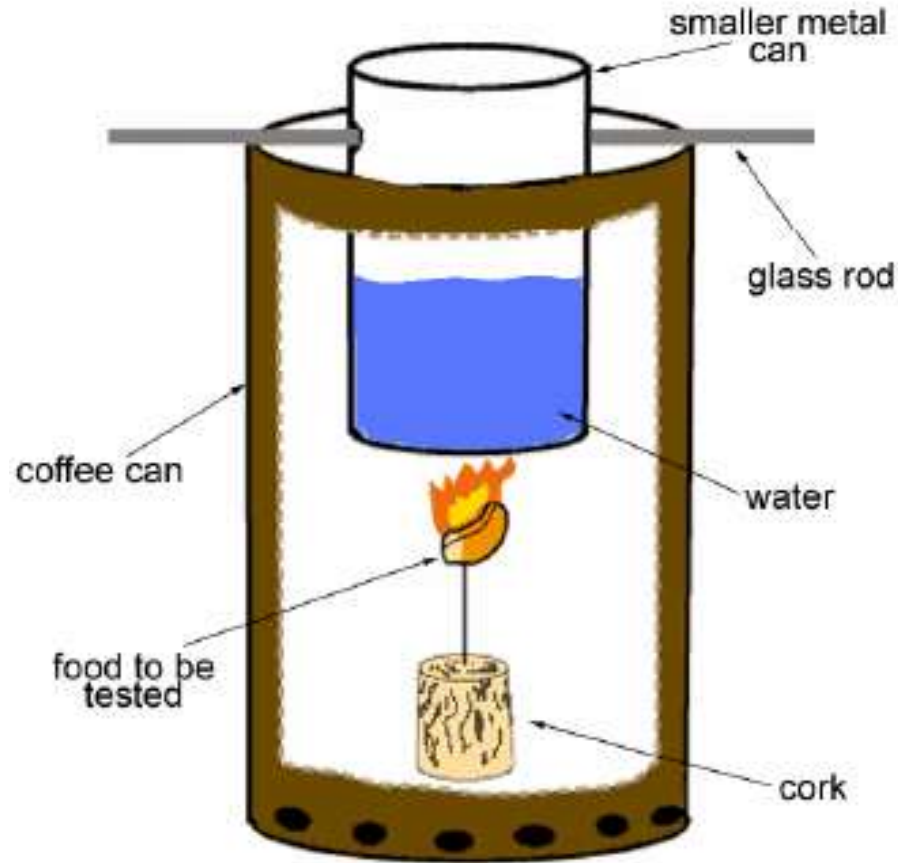
Food Explorations Part I: Energy Balance Equation

Teacher Preparation – Before Starting Lesson



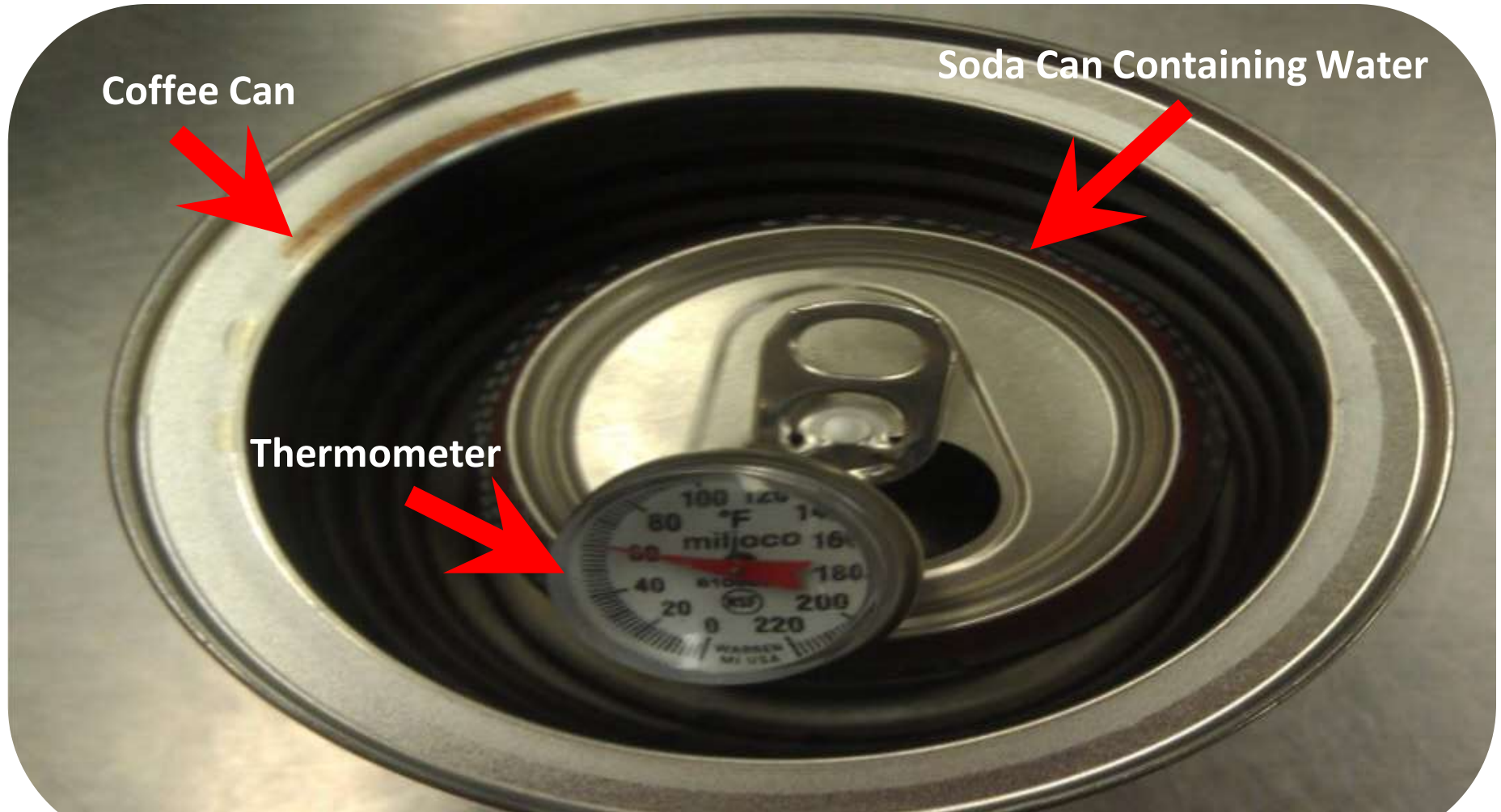
[How to make a coffee can bomb calorimeter.](#)

Teacher Preparation – Before Starting Lesson



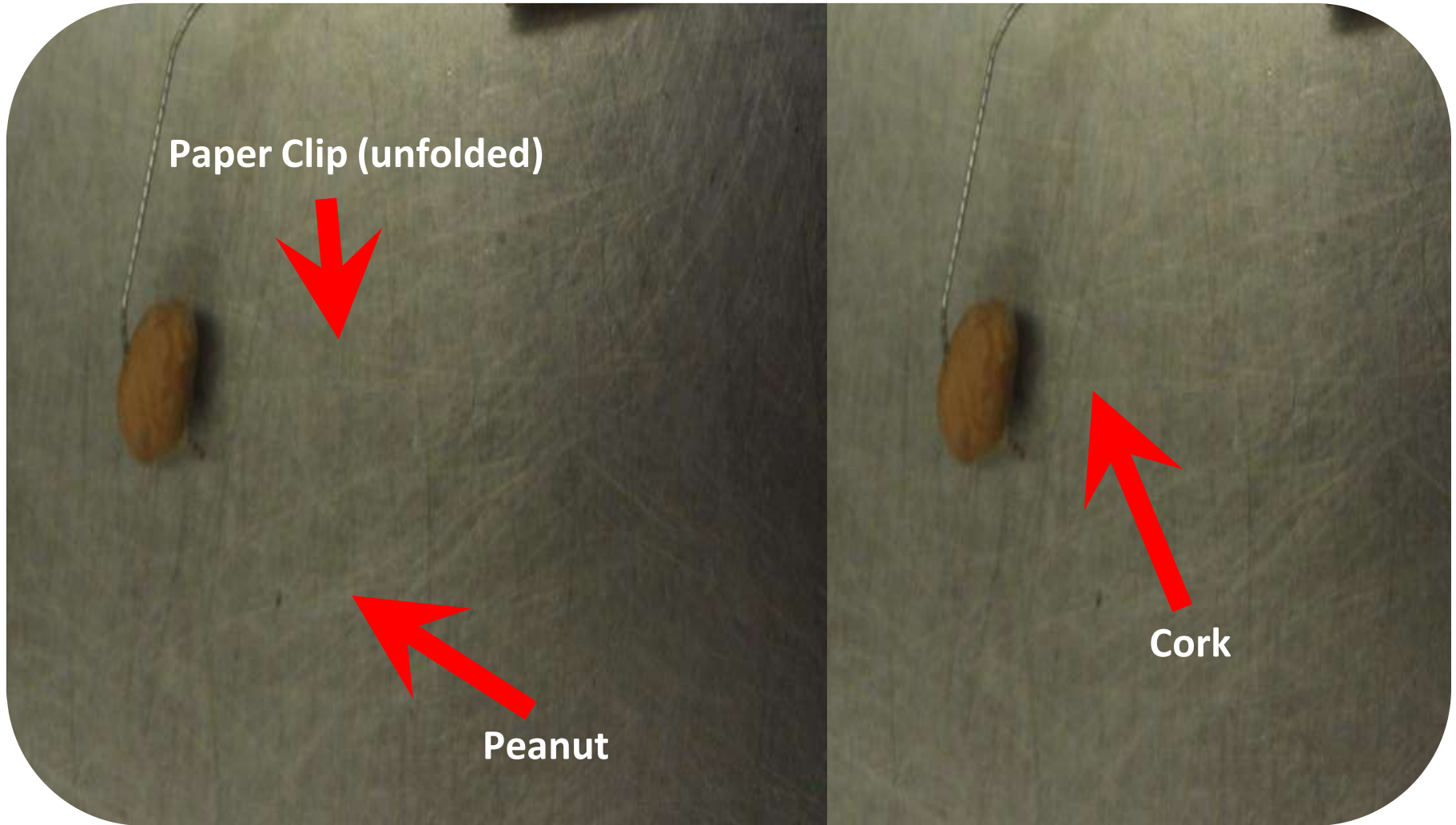
IMPORTANT NOTE: The experimental portion of this lab investigation (burning of food) should occur in an open area outside, unless you have access to a fume hood in your classroom.

Student Lab Investigations



Place 100 mL of room temperature distilled water in a small can. Place the small can inside of the coffee can. Place thermometer in the water.

Student Lab Investigations



Unwrap the paper clip and insert it in the cork. Wrap the paper clip around the food.