

Set up instructions for the Teacher:

Phenomenon:

Small container of vinegar

Small container of baking soda

Medium-sized beaker (but large enough to contain the mess)

Tip: a 250 ml beaker worked well to combine approx. 50 ml of Vinegar and a small portion cup full of baking soda

Part 1:

Materials needed per group of 2:

1 set of “joule” money, cut and in a ziplock bag

Activity board – laminate or put in a page protector

Calculator (if needed for your students)

Part 2: No materials needed.

Part 3:

Materials needed per group of 2:

Sodium Bicarbonate (baking soda) - a small portion cup full; label the cup with the molecular formula

Vinegar (Acetate) - small beaker (approx. 50 ml); label with molecular formula

250 ml beaker

Thermometer

Spoon or scoopula

Scale

Weighing pan

Optional: timer; lunch tray or other tray to hold materials for groups.

Tip: If you have back-to-back classes, add more vinegar and baking soda in the containers so you don't have to refill as much.

