

BEFORE & AFTER SCHOOL · GRADES 2–5

After-School Science Club

Six experiments that always work

Six experiments

1 — Volcano (baking soda + vinegar) Mound of baking soda inside a clay 'volcano'. Add vinegar with red food coloring. Foam erupts. Discuss: what's the gas? (CO ₂). Why does it foam?	2 — Density tower Pour layers in this order into a tall glass: honey, syrup, dish soap, water (with food coloring), oil, rubbing alcohol. Each floats on the next. Discuss density.
3 — Walking water Three cups: red water, empty, blue water. Paper towel folded between cups. Water 'walks' up the towel and meets in the middle as purple. Capillary action.	4 — Static electricity Inflate a balloon. Rub on hair. Hold near small bits of paper. Paper jumps to the balloon. Discuss why.
5 — Lava lamp in a bottle Fill bottle 2/3 with oil, 1/3 with water + food coloring. Drop in a piece of fizzing tablet. Bubbles carry colored water up through the oil. Mesmerizing.	6 — Skittles rainbow Arrange Skittles in a circle on a plate. Pour warm water in the center. Colors spread out into a beautiful rainbow before mixing.

Safety

- Adult supervision throughout
- No tasting (tell children clearly)
- Clean up spills immediately
- Safety glasses for the volcano experiment
- Wash hands at start and end of every session

