Taste Buds” activities is videotaped in the ACS building with students and teachers from two local Clubs attending in person. Other Clubs attended the party by joining in the fun virtually. The clubs that participated virtually each received a box filled with party materials to do the same activities in their locations. Among the unusual items in the box were nose clips for the “Figure Out the Flavor” taste activity.

Cupcakes were part of that day’s celebration. Instead of “Hacking Your Taste Buds,” as they did at the party, try this baking activity to “Hacking Your Cupcakes” with an ingredient change. The recipe below is taken from the ACS ChemClub Cookbook (p. 80).

**Preheat oven to 350 °F.**

1. Mix the first four ingredients in a bowl.
2. Stir the ingredients from the second bowl into the first. Mix well.
3. Pour the mix into six holes of a muffin pan. Bake for 15–18 minutes.

(a) replace baking powder with the same amount of baking soda; (b) increase the amount of baking powder; (c) use sour cream instead of milk; (d) use oil instead of butter; (e) or make another change of your choice. Predict the effect of your change.

**Reheat**

Repeat steps 1–5, but adjust your selected ingredient.

How did your first cupcakes compare with the second batch? Did they look different?

**SAFETY**

This activity must be done in a food-safe environment rather than in a chemistry laboratory, because participants will be eating and tasting food products. Students with food allergies should confirm they are able to safely perform this activity with the foods used.