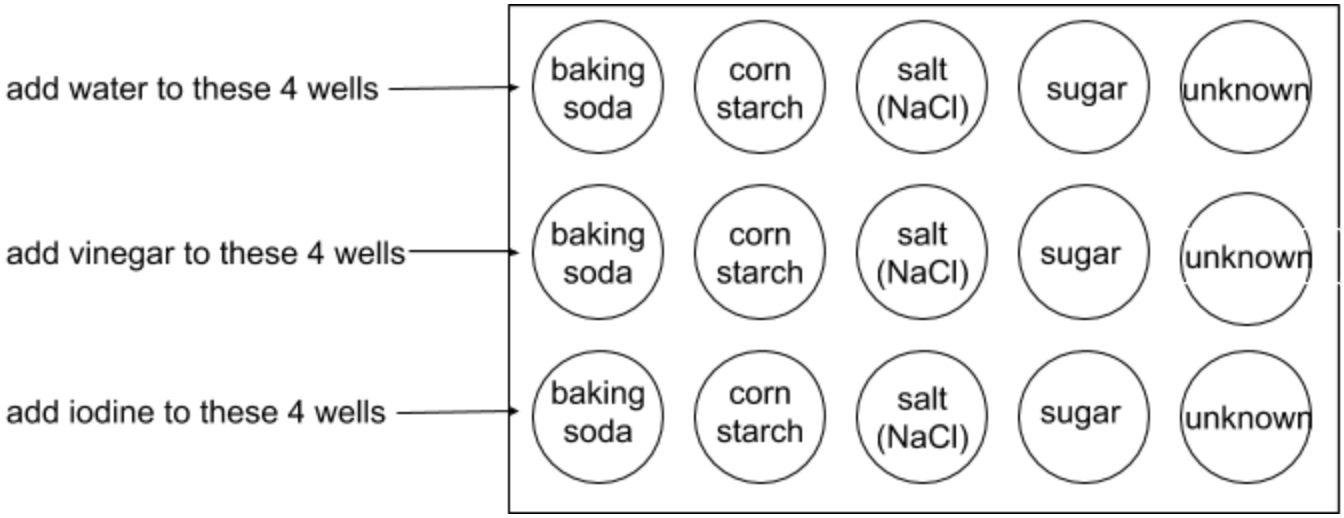
Materials:
a microplate or test tubes,

baking soda ($NaHCO_3$), corn starch, iodine solution (I_2), paper, salt (NaCl), sugar ($C_{12}H_{22}O_{11}$), vinegar (CH_3COOH), water, a "mystery" compound (optional)

Procedure:

Part 1: Place a small amount of the following substances into separate wells in the microplate as shown on a diagram below:



Part 2: Add 10-15 drops of water and vinegar into each microwell as shown above. Add 2-3 drops of iodine into each microwell as shown above. Describe any changes that occur.

Note: the reaction takes place if you observe any of the following:

- change in colour
- gas formation (bubbles)
- precipitate formation (solid forming - cloudy)

Part 3: Teacher Demonstration: Flammability
Light a bunsen burner and drop a small pinch of each substance on an open flame. This allows you to see if there is a flash point - a positive test would be flare up of the flame

