



Unit 2: Matter – Physical and Chemical Properties of Matter

List some physical properties of the following substances. Then mix a teaspoon of each substance to the following:

- $\frac{1}{4}$ cup water
- $\frac{1}{4}$ cup acid (vinegar)
- $\frac{1}{4}$ cup alcohol

Be sure to mix only one type of powder and one type of liquid at a time.

Type of Matter	Physical Properties (Observable without changing the substance into a new substance)	Chemical Properties (Reacts or does not react; changes the substance into a new substance)
Salt	1. 2. 3.	1. Reaction with water 2. Reaction with vinegar 3. Reaction with alcohol
Baking soda or Baking Powder	1. 2. 3.	1. Reaction with water 2. Reaction with vinegar 3. Reaction with alcohol
Sugar	1. 2. 3.	1. Reaction with water 2. Reaction with vinegar 3. Reaction with alcohol
Cornstarch or Flour	1. 2. 3.	1. Reaction with water 2. Reaction with vinegar 3. Reaction with alcohol