Mixed Solid Crystal Analysis

Now that you know how to identify the individual solids, we need to look at how to identify the solids when they are mixed. Not all of the solids will be mixed together. We are going to only allow 10 of the 13 to be combined. The solids that will be allowed to be combined are: Alka-Seltzer, Baking Soda, Calcium Carbonate, Cornstarch, Flour, Gelatin, Plaster of Paris, Salt, Sand, and Sugar. If you were to try every possible combination of two of these, you would have 450 possibilities. It is unlikely that you would be able to do all of them in the 1 hour we have. Therefore you will have to just practice putting two solids together in your spot plates, mixing them together, and then go through the same tests and record what happens.

Substances	Shape & Size	pH	Solubility in water	Reaction to HCl	Reaction to I_2	Other Observations

Substances	Shape & Size	pH	Solubility in water	Reaction to HCl	Reaction to I_2	Other Observations

When you are ready, try a couple of unknowns

Unknown	Shape & Size	pH	Solubility in H_2O	Reaction to HCl	Reaction to I_2	Other Observations	ID