

## Using Chemical Change to Identify an Unknown - Notes Sheet

### Key Concepts:

- ❖ Substances react \_\_\_\_\_ in \_\_\_\_\_ ways.
- ❖ A set of reactions can be used to \_\_\_\_\_ an \_\_\_\_\_ substan

### Using Chemical Change to Identify an Unknown Processing

#### Question to Investigate

Can you use the characteristic ways substances react to identify an unknown powder?

#### Materials for Each Group

- Unknown in cup
- 1 Popsicle stick
- Testing sheet
- 4 test solutions
- 4 droppers

#### Procedure

1. Place four samples of your group's unknown powder in the "Unknown" column on the testing chart.
2. Test the unknown with each test solution in the same way you tested each of the other powders.
3. Compare the set of reactions for the unknown with those of the other powders.

Test Solution	Unknown
Water	
Vinegar	
Iodine solution	
Indicator solution	

What is the identity of the unknown?

Which observations led you to your conclusion?