

## Objectives:

- To collect data from 4 different white powders based upon physical and chemical properties.
- To follow correct lab safety procedures
- To analyze data and use a flow chart
- To identify substances

## Procedures:

- Use your circular plates to work on
- Test only 1 powder at a time per pair of students
- Place a small amount of powder in each of the circular plates provided
- Use toothpicks to mix the indicators with the powder.
- Be sure to clean circular plates completely before moving onto the next powder.

## Physical properties and pH box:

- Record the properties of the powders such as color, texture, crystal, or powder.
- Add 3-5 drops of water. Test the pH with litmus paper. Blue litmus is for a base. Red litmus is for an acid. No color change is neutral.
- Add 2-3 drops of Cabbage juice. Check pH.

## Vinegar text box:

- Add 2 drops of Vinegar.
- If it fizzes, then CO<sub>2</sub> has been released.
- Record results in Table

## Data Table:

Test	A	B	C	D
Color				
Texture				
Crystal/Powder				
Litmus Paper				
Cabbage Juice				
Vinegar				

## Analysis &amp; Results:

- What did all of the powders have in common?
- Why is it important to use different methods to determine what powder it is?
- Use the flow chart to see what powders you had.
- How might these tests be useful to you?

## Conclusion:

- Write 2-3 sentences on what you learned

