

# MYSTERY POWDER INVESTIGATION

NAME:

**Physical Properties** – how it looks, feels, and smells, place descriptions for each powder in the table below. You can place your hypothesis for the identification of the powder in the table as well.

Red	
Yellow	
Green	
Blue	
Orange	

**Physical changes** – When a powder is mixed with water it either dissolves in a solution or forms a suspension. If the solution is filtered, the powder either remains in the filter paper or flows through it into the petri dish. If the water is allowed to evaporate from the petri dish, crystals may form.

	Water Mixture Observations	Solution or Suspension	Presence of powder or crystal in filter paper	Crystal formation
Red				
Yellow				
Green				
Blue				
Orange				

**Chemical changes** – If an unexpected color change or bubbles occur - a chemical change may have taken place. If a sign of a chemical change took place, write that change below.

	Vinegar	Iodine	Red Cabbage Juice Indicator
Red			
Yellow			
Green			
Blue			
Orange			