Properties of Matter Lab

Provide a deeper understanding of properties of matter. Determine if the reactions are a physical or chemical property change.

Procedures:

Collect observation before, during, and after each step in the procedure.

Ensure you use your senses (listen, smell, touch, and sight...DO NOT TASTE).

1. Collect 10 ml of distilled water in a test tube; add a pinch of sodium chloride (salt). Ensure the salt totally dissolves. Add three drops of silver nitrate to the solution. Record results.

Before	During	After
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2. Add 10 ml of Copper Sulfite solution. Add a small piece of aluminum to the solution. Record results.

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 Add 3 ml of Hydrochloric 	Acid (HCl) to a test tube. Go to the from	at table and count 1
penny with a metal file. P	Place scratched penny in the HCl and reco	it table and scratch a
ry waa a motal me. 1	face scratched penny in the HCI and reco	rd results.
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5 Add a small amount of cale		
5. Fide a small amount of care	cium carbonate (baking soda) to a test tub	e. Add 2 ml of HCl
to the Calcium Carbonate a	nd record results.	
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3. Add 10 ml of distilled water to a test tube. Add a pinch of borax to the water. Add three

drops of Phenolphaline. Record results.

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- 9. Mix sand and paper clips on a tray and a paper towel. Without touching the paper clip, remove the clips in less than ten seconds and time your results. Hint: Some metals are magnetic.
- 10. Based on all observations, what is a chemical change? What is a physical change? List the evidence for a chemical change and physical change. Use previous knowledge to come up with the answers.

Chemical Change	Physical Change
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