

Physical and chemical changes lab Answer Key

Data Table

Station #	Observation	Physical or chemical change	Why? What evidence did you see that supports your answer?
1 Vinegar and milk	Milk Separates and becomes chunky. Smell/odor given off.	Chemical	Odor and precipitate forms when the vinegar reacts with the milk. Chunky separation that forms is called Casein. Casein is a very long molecule that bends like plastic – that's why the lumps of milk are pliable and bendy
2 Baking soda and vinegar	Bubbles/ fizzes	Chemical	Baking soda and vinegar react with each other because of an acid-base reaction. Baking soda is bicarbonate (NaHCO_3) and vinegar is an acetic acid (HCH_3COO). One of the products this reaction creates is carbon dioxide. This forms the bubbles.
3 Water and salt	Dissolves	Physical	Can reverse the reaction, by boiling the water off the salt crystals will remain. STRESS dissolving and mixing as physical property.
4 Sugar and heat	Burns	Chemical	Heat is added to the sugar. Heat energy from the flame provides the energy, which causes atoms in the sugar molecule to vibrate faster and eventually break apart. The sugar is then chemically changed when these free atoms rearrange themselves, react with oxygen in the air and come back together to create new substances. New substance is Caramelized sugar (browning of sugar).
5 A Food coloring and water	Water changed from clear to blue	Physical	Physical change as the food coloring can be removed. It is still water just a different color.

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