Examples of Changes for Preassessment					
Glass breaking	Hammering wood together to make a playhouse	Rusting bicycle	Melting chocolate for dipping		
Slicing bread	Mixing Kool-Aid powder with water	Mowing the lawn	Bleaching your hair		
Fireworks exploding	Squeezing oranges to make orange juice	Roasting marshmallows	Breaking an egg		
Burning leaves	Popping popcorn	Burning toast	Pouring milk on your cereal		
Cream being whipped	Freezing popsicles	Water evaporating	Spoiling food		

Changes Stations		
Station	Physical or Chemical?	Teacher Preparation
Cabbage Juice	Chemical	 Chop red cabbage into small pieces and place in a bowl. Cover with boiling water and let sit for 10 minutes. Strain cabbage and reserve liquid. Place 50 mL of cabbage liquid into small cups (two cups per group). Using a dropper, students will add vinegar to one cup until the color changes. In the other cup, students will add baking soda until the color changes.
Plaster of Paris and Water	Chemical	Add two heaping spoons of Plaster of Paris to zip-lock bags (one bag per group).
		Students will add room temperature water forming the plaster.

Chemical	 One large ball of clay. Each student group will divide the clay so each group member has a piece. Allow students to build something out of their clay piece. Before leaving the station, students return the clay into a large ball. Cut an apple into fourths and place in a ziplock bag. Let sit overnight. Right before class, cut another apple into fourths and place in a zip-lock bag.
Chemical	lock bag. Let sit overnight. 2. Right before class, cut another apple into
	3. Students observe both bags of apples.
Chemical	 Place about 125 mL of water into small cups (one cup per group). Break Alka-Seltzer tablets into quarters. Students place an Alka-Seltzer piece into the cup of water.
hysical	 Place about 125 mL of water into clear cups. Add a spoonful of salt and stir.
hysical	 Make a mixture of rocks of various sizes (pebbles, gravel, and sand). Students will use screens of various sizes to separate the rocks into their different sizes.
hysical	 Sodium polyacrylate crystals are the super absorbent crystals that are found in disposable diapers. They can be purchased online. Place a teaspoon of the sodium polyacrylate into disposable 2 oz cups (one cup per group). Students add water to cups and watch as the crystals expand. *Safety precautions- Material is safe to touch, but rinse hands
ŀ	nysical

•	or respiratory passages. Crystals are safe to throw away in the regular trash. DO NOT pour down the sink.
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Reversible Changes	Activities			
Station	Physical or	Teacher Preparation		
	Chemical?			
Color Mixing	Physical	 Cut coffee filters into strips. 		
		2. Using a toothpick, students will mix one		
		drop of yellow and one drop of blue food		
		coloring on a piece of wax paper.		
		3. Students put a drop of the green color 1"		
		from one end of their filter paper.		
		4. Place filter paper (green dot down) into a		
		cup with a small amount of water. Make		
		sure the green dot is not directly in the		
		water.		
UV Beads	Chemical	Students observe UV beads away from		
		the sun.		
		2. Place the beads in the sun, make note of		
		the change.		
		3. Then remove the beads from the sun.		
Breaking Rocks	Physical	Using hammers, students will break larger rocks		
		into smaller rocks.		
		Safety notice: Eye protection should be worn		
		during this activity.		
Melting Ice	Physical	Put water into ziplock bags (one bag per		
		group). Freeze.		
		2. Students will put bags of ice in the		
		microwave to melt.		
		3. Place the bags of water back in the		
		freezer.		
Heat-sensitive	Chemical	Place the baby spoon in hot tap water.		
Baby Spoons		2. Remove the baby spoon from the water.		
(used for babies to		, · ·		
prevent burns				
from hot food)				