

## Combined Materials at a Glance:

## Pre-Level I Chemistry and Level I Chemistry (Exp. 6-10)

\* PLI - Pre-Level I, LI- Level I

\*\* items above the lines are identical, items below the lines are different. No line means no identical items.

Experiment 6		Experiment 7		Experiment 8		Experiment 9		Experiment 10	
Students use similar items; PLI students use only "food safe" items, LI students use some "non-food safe" items. Both are observing mixtures.		Students use some similar items. PLI students try to separate different mixtures and do simple chromatography, LI students do more complicated chromatography. LI students use a "non-food safe" (alcohol) solvent, PLI students use a "food safe" solvent (water).		Students use similar food items. PLI students do not use iodine. It is recommended that PLI students NOT have access to the iodine. Iodine is very poisonous and should never be ingested.		Students use similar items; LI students use two different types of glue, but PLI students can also use different glues.		Students use different items. Because this experiment uses iodine in LI, PLI students do not do a similar experiment. Both students are studying enzyme activity. PLI students bake bread and LI students observe the action of enzymes in their saliva. LI students can also do the PLI experiment	
Pre-Level I	Level I	Pre-Level I	Level I	Pre-Level I	Level I	Pre-Level I	Level I	Pre-Level I	Level I
small jars or plastic cups	small jars or plastic cups	small jars or plastic cups	small jars or plastic cups	NO IODINE!	iodine	small jars or plastic cups	small jars or plastic cups	active dry yeast	iodine
vegetable oil	vegetable oil	coffee filters (white)	coffee filters (white)	food items:	food items:	liquid laundry starch (or Borax)	liquid laundry starch (or Borax)	sugar	bread
melted butter	melted butter	food coloring	multi-colored ink pen	ripe banana	ripe banana	Elmer's white glue	Elmer's white glue	vegetable oil	timer
liquid soap	liquid soap	small rocks	black ink pen	green banana	green banana	paper clips	Elmer's blue glue	flour	wax paper
milk	vinegar	Legos	rubbing alcohol	raw potatoes	raw potatoes		marker	measuring cups	marking pen
water	rubbing alcohol	sand		cooked potatoes	cooked potatoes		popsicle stick for stirring	measuring spoons	
juice	ammonia	sugar		pretzels or salty crackers	pasta			marking pen	
	food coloring	salt		raw potatoes	bread			two bowls	
		water		cooked potatoes	apple				
		pencil		blindfold	liquid laundry starch				
		tape			white paper				
					eye dropper				