

Materials at a Glance

Experiment 1	Experiment 3	Experiment 5	Experiment 6	Experiment 7
watercolor paints water in a container paintbrush several pieces of paper to paint on scissors tape	magnifying glass household items such as: cotton balls rubber bands pencil several food items such as: crackers cheese marshmallow beans color-coated candy	4 or more clear plastic cups or glasses marking pen measuring cup measuring spoons the following food items: lemon juice - 180 ml vinegar - 180 ml milk - 180 ml baking soda - 90 ml water - 180 ml <i>Just For Fun</i> section: baking soda vinegar sugar <i>Or</i> 2 or more food items chosen by student	clear plastic cups, 12+ measuring cup measuring spoons marking pen 1 head of red cabbage knife cooking pot, large distilled water, 1.25- 1.75 liters white grape juice, 60 ml milk, 60 ml lemon juice, 60 ml grapefruit juice, 60 ml mineral water, 60 ml antacid tablets—3 extra- strength unflavored white Tums baking soda, 5 ml other substances to test Optional small plastic bag wooden mallet or other hard object	18 or more clear plastic cups measuring cup measuring spoons marking pen leftover red cabbage juice from Experiment 6 or one head of red cabbage food items, approx. 300 ml each: vinegar, lemon juice, mineral water, distilled water baking soda (25 ml or more) antacid tablets, 5 or more (try Tums plain, white, extra strength) substances of students' choice
Experiment 2	Experiment 4			
salt, 15 ml water, 237 ml brick of modeling clay (1 or 2) sugar	Legos small marshmallows, 1 pkg large marshmallows, 1 pkg toothpicks			
Experiment 8	Experiment 9	Experiment 10	Experiment 11	Experiment 12
15 or more clear plastic cups measuring cup measuring spoons spoon for mixing liquid soap marking pen the following food items (approx. 60 ml each): water milk juice vegetable oil melted butter	several glasses or plastic cups measuring cup 3 bags (small paper or plastic) several small rocks (5-10) Legos (handful) sand (2 handfuls) sugar (handful) salt (2 handfuls) water food coloring, several colors 1-2 white coffee filters white paper, several sheets scissors several pencils tape	Elmer's white glue, approx. 30-60 ml liquid laundry starch, approx. 30-60 ml (or cornstarch, borax, and water mixture) measuring cup 2 plastic cups 30 metal paper clips Elmer's white glue, approx. 30-60 ml <i>Just For Fun</i> section: non-toxic glue such as blue glue, clear glue, wood glue, glitter glue, or paste glue, approx. 30-60 ml Optional food coloring	the following foods: marshmallows (2-3) ripe banana green banana several pretzels or salty crackers raw potato cooked potato other food items blindfold	flour, 2 liters 1 pkg. active dry yeast sugar, 30 ml vegetable oil salt, 5 ml soft butter, 120 ml double-acting baking powder, 15 ml milk, 360 ml measuring cups measuring spoons 4 mixing bowls mixing spoon floured bread board 2 cookie sheets marking pen refrigerator oven timer Optional rolling pin biscuit cutter 2 bread pans

Materials: Quantities Needed for All Experiments

Equipment	Materials	Foods
blindfold bowls, mixing, 4 bread board, floured cookie sheets, 2 cup, measuring cups or glasses, 12-50 clear plastic knife Legos magnifying glass oven pot, large, cooking refrigerator scissors spoon for mixing spoons, measuring timer Optional biscuit cutter bread pans, 2 mallet, wooden, or other hard object rolling pin	bags (small paper or plastic), 3 clay, modeling, 1 or 2 bricks coffee filters, 1-2 white food coloring, several colors glue, Elmer's white, approx. 30-60 ml glue, non-toxic, such as blue glue, clear glue, wood glue, glitter glue, or paste glue, approx. 30-60 ml household items such as: cotton balls rubber bands pencil paintbrush paints, watercolor paper, several pieces to paint on paper, white, several sheets paperclips, 30 metal pen, marking pencils, several rocks, small (5-10) sand (2 handfuls) soap, liquid starch, liquid laundry, approx. 30-60 ml (or cornstarch, borax, and water mixture) tape toothpicks water water, distilled Optional bag, 1 plastic, small	antacid tablets—8 or more extra-strength unflavored white Tums baking powder, double-acting baking soda bananas, 1 ripe, 1 green butter cabbage, red, 1-2 heads flour, 2 liters food items such as: beans candy, color-coated (e.g., M&Ms) cheese crackers marshmallow juice, grapefruit juice, lemon juice, white grape marshmallows, large, 1 pkg marshmallows, small, 1 pkg milk potato, 1 raw, 1 cooked pretzels or salty crackers, several salt sugar vegetable oil vinegar water, mineral yeast, 1 pkg. active dry Optional food items chosen by student

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