Appendix B – Common Materials List

Material	Specification	Investigations
A		
Acrylic, clear spray		1
Aftershave		23
Ajax [®] laundry detergent (liquid)		2
Almonds, sliced		50
Aluminum cans		38
	lids	10
Aluminum foil		10, 25, 27, 30, 32, 45
Ammonia cleaning product		22, 23, 63
Anise seeds		53
Antacid tablets	Alka-Seltzer®	21, 51
	Tums [®]	21
	Rolaids®	21, 51
Antifreeze nontoxic		2
Aspirin	aged commercial	55
	fresh commercial	55
Astringent		62
В		
Baby oil		62
Baking powder		51
Baking soda		51
Balloons, large party		5
Battery	9 V	6
Beets		22
Bleach, chlorine		23, 25, 27, 63
Bloodstains		49
Borax [®]	powdered	61
	4% solution	31
	8% solution	31
Brake fluid		2
Bread, white		50
Butter		56
Butter beans		50
C		
Cabbage, red		22
Can lids		10

Candle	emergency size	8
Condboard for lid to Structoon® over	small birthday	36
Cardboard for lid to Styrofoam® cup		3
Castille soap (or Ivory Snow®)		61
Charcoal, activated		38
Cheese, Swiss		50
Cheesecloth		50, 59
Cigar, little		37
Cigarettes	filtered	37
	non-filtered	37
Citrus fruits	orange, lemon, or	45
	grapefruit juices	46
Clay (soil)	juices	59
Cleansing cream		62
Cloth		17
Coffee, instant granules		54
Coins	different metals	25, 45
Coms	pennies	33
Cologne	(or inexpensive perfume)	23, 62
Container with lid (plastic)	at least 200 mL capacity	33
Copper	tokens (coins)	1
TIP	wire, insulated	6
Cork	small	2
	ground pieces	4
Corn syrup	1% solution	57
Cotton balls		44, 45, 62
Cotton swabs		20, 49
Cottonseed oil		60
D		
"Dirty" water		38
Dish washing detergent	machine	23
	hand	18, 23
Downy® fabric softener		2
Drain cleaner		22, 23
Drinking Straws		19, 36
Drink mixes (fruit)		13
Dry ice		38, 39, 40
E		
Egg, raw		47, 65
Elmer's Glue®		31

Excedrin® (extra strength) F		54
Fabric dyes		38
Fertilizer (inorganic)		58
Food to test for proteins		50
Food colors	common 4	28, 30, 38, 52
1 004 001015	blue	63
	green	2, 20
	red	61
FD&C food dyes	common seven	52
Fritos [®]		
	annla	56
Fruit juices with vitamin C	apple	46
G	orange	46
Gelatin, unflavored		47
		47
Grape juice, concentrate		22
Gum, chewing H		17
Hair		47. 62
		47, 63
Hair spray	or modeling clay	23, 62 49
Handi-Tak [®] (or other removable gum adhesive)	of moderning clay	47
Honey	pure	18
	1% solution	57
Hot air dryer		43, 54
I		
Ice		2, 20, 34, 55
Incandescent bulb (with socket)		8
Isopropyl alcohol (rubbing)		18
Ivory Snow® (or castille soap)		61
K		
Karo [®] syrup	dark	2
J 1	light	2
Ketchup	118111	18
Key		64
Knives		22
L		
Lead samples (at least 1%)		65
Lemon juice		22
Lipstick		62

M		
Magnet	handheld	4
Marbles, glass		18, 33
Margarine	liquid	56
	solid	56
Marker, permanent		10
Marshmallow, puffs		50
Matches		23, 37, 44
Meat, lean white (chicken or turkey)		50, 56
Metal pellets		41
M&M's® candies		52
Milk		47, 50
Mineral oil		2, 44
Molasses		2
Motor oil (30 wt.)		2
Mulch or other humus		59
N		
Nailclippers		47
Nail polish remover		23
Notebook paper		9
0		
Oil, Olive		56
Oil, cooking (vegetable)		2, 17, 18, 56
Oven cleaner		23
P		
Paint thinner		23
Paper clips	large metal	30, 52, 54, 55, 59
	aluminum	2, 31, 45
	plastic	2
Paper towels		25, 27, 28, 40, 45, 62, 64
Paper, white sheets		11, 13, 32, 64
Paraffin		2
Paring knife		48
Peanut butter		17
Peanut oil		56
Pencil		52, 54, 55
Plaster of Paris		6
Plastic sleeve, clear, letter size		11, 13
Plastic wrap	(or foil for covering beaker)	52, 54, 55

Rice 50 Rubber bands (stopper, rubber band, eraser) 2 Ruler, metric 1, 15, 19, 20, 30, 31, 43, 54 S 54 Sand 4, 59 Sandpaper 15 Scented oil 60 Scissors 7 Shampoo, clear or white 22, 63 Silt 59 Silver piece (tarnished) 27 Skittles® candies 52 Smoke detector 32 Soap bar 62 Soft drink, clear 22 Soil samples (three) 59 Stapler and staples 52 Starch, soluble 18 Steel wool, fine 12, 45 Straw, drinking 32 Styrofoam® cups 10-oz 3, 31, 41 8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64 Sunscreens, 3 different SPFs 64	Poppy seeds Potato, raw Potato chip Power steering fluid R Radish		53 48, 56 56 2 50, 56
Rubber, small pieces (stopper, rubber band, eraser) 2 Ruler, metric 1, 15, 19, 20, 30, 31, 43, 54 S S Sand 4, 59 Sandpaper 15 Scented oil 60 Scissors 7 Shampoo, clear or white 22, 63 Silt 59 Silver piece (tarnished) 27 Skittles® candies 52 Smoke detector 32 Soap bar 62 Soft drink, clear 22 62 Soil samples (three) 59 59 Stapler and staples 52 59 Starch, soluble 18 52 Steel wool, fine 12, 45 52 Storage bags, plastic zippered 18 52 Stronge bags, plastic zippered 33 33 Stronge bags, plastic zippered 42 45 Sturg, drinking 10-oz 3,31,41 41 8.5-oz 42 42 6.4-oz 42 42 Sunglasses 64 44			
S4 S Sand 4,59 Sandpaper 15 Scented oil 60 Scissors 7 Shampoo, clear or white 22, 63 Silt 59 Silver piece (tarnished) 27 Skittles® candies 52 Smoke detector 32 Soap bar 62 liquid, softsoap, bodywash 17, 27, 62 Soft drink, clear 22 Soil samples (three) 59 Stapler and staples 52 Starch, soluble 18 Steel wool, fine 12, 45 Storage bags, plastic zippered 33 Straw, drinking 32 Styrofoam® cups 10-oz 3, 31, 41 8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64			
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Scissors 7 Shampoo, clear or white 22, 63 Silt 59 Silver piece (tarnished) 27 Skittles® candies 52 Smoke detector 32 Soap bar 62 Iquid, softsoap, bodywash 17, 27, 62 Soft drink, clear 22 Soil samples (three) 59 Stapler and staples 52 Starch, soluble 18 Steel wool, fine 12, 45 Storage bags, plastic zippered 33 Straw, drinking 32 Styrofoam® cups 10-oz 3, 31, 41 8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64	Sandpaper		15
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Soil samples (three) 59 Stapler and staples 52 Starch, soluble 18 Steel wool, fine 12, 45 Storage bags, plastic zippered 33 Straw, drinking 32 Styrofoam® cups 10-oz 3, 31, 41 8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64		liquid, softsoap, bodywash	17, 27, 62
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Storage bags, plastic zippered Straw, drinking Styrofoam® cups 10-oz 8.5-oz 6.4-oz Sugar, table powdered, 1% solution granulated 1% solution 57 Sunglasses Sunscreens, 3 different SPFs 33 32 34 42 42 57 57 64 64 64	Starch, soluble		18
Straw, drinking 32 Styrofoam® cups 10-oz 3, 31, 41 8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 granulated 4, 50 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64	Steel wool, fine		12, 45
Styrofoam® cups 10-oz 3, 31, 41 8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 granulated 4, 50 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64	Storage bags, plastic zippered		33
8.5-oz 42 6.4-oz 42 Sugar, table powdered, 1% solution 57 granulated 4, 50 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64	Straw, drinking		32
$\begin{array}{c} 8.5\text{-oz} & 42 \\ 6.4\text{-oz} & 42 \\ \\ \text{Sugar, table} & \text{powdered, 1\% solution} & 57 \\ \\ \text{granulated} & 4,50 \\ \\ 1\% \text{ solution} & 57 \\ \\ \text{Sunscreens, 3 different SPFs} & 64 \\ \end{array}$	Styrofoam [®] cups	10-oz	3, 31, 41
Sugar, table powdered, 1% solution 57 granulated 4, 50 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64		8.5-oz	
granulated 4, 50 1% solution 57 Sunglasses 64 Sunscreens, 3 different SPFs 64		6.4-oz	42
Sunglasses 64 Sunscreens, 3 different SPFs 64	Sugar, table	powdered, 1% solution	57
Sunglasses 64 Sunscreens, 3 different SPFs 64		granulated	4, 50
Sunscreens, 3 different SPFs 64		1% solution	57
,	Sunglasses		64
Syrup 17	Sunscreens, 3 different SPFs		64
	Syrup		17

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T		
Tape, clear		7, 49, 59, 62, 63
Tea bags (standard dark tea)		54
Thread		15
Thumbtacks	metal	2,
Tide [®]		61
Toilet bowl cleaner		23
Transmission fluid		2
\mathbf{V}		
Vanilla extract		23
Vegetable cooking oil		2, 17, 18, 56
Vick's Vapoinhaler®		53
Vinegar		22, 23, 63
Vitamin C tablets	250 mg	46

yarn or fabric

Vivarin[®] (or No-Doze[®]) tablets

Wool, undyed or natural color

Wire to form a stirrer

W

54

3

52