

**Solution Manual for Chemical Investigations for Chemistry
for Changing Times 14th by Hill Creary Hassell and
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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
	Roloids®	21, 51
Antifreeze nontoxic		2
Aspirin	aged commercial	55
	fresh commercial	55
Astringent		62
B		
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
	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 grapefruit	45
	juices	46
Clay (soil)		59
Cleansing cream		62
Cloth		17
Coffee, instant granules		54
Coins	different metals	25, 45
	pennies	33
Cologne	(or inexpensive perfume)	23, 62
Container with lid (plastic)	at least 200 mL capacity	33
Copper	tokens (coins)	1
	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		

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Egg, raw

47, 65

Elmer's Glue®

31

Excedrin® (extra strength)		54
F		
Fabric dyes		38
Fertilizer (inorganic)		58
Food to test for proteins		50
Food colors	common 4	28, 30, 38, 52
	blue	63
	green	2, 20
	red	61
FD&C food dyes	common seven	52
Fritos®		56
Fruit juices with vitamin C	apple	46
	orange	46
G		
Gelatin, unflavored		47
Grape juice, concentrate		22
Gum, chewing		17
H		
Hair		47, 63
Hair spray		23, 62
Handi-Tak® (or other removable glue adhesive)	or modeling clay	49
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
	light	2
Ketchup		18
Key		64
Knives		22
L		
Lead samples (at least 1%)		65

Appendix B – Common Materials List

Lemon juice
Lipstick

Appendix B – Common Materials List

22
62

M Magnet

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

beaker)

52, 54, 55

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

Syrup

17

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

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
Vivarin® (or No-Doze®) tablets		54

W

Wire to form a stirrer		3
Wool, undyed or natural color	yarn or fabric	52