

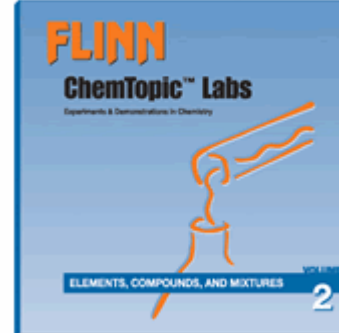
Elements, Compounds, and Mixtures— Master Materials Guide

Materials listed below are recommended
for a class of 30 students working in pairs.

Experiments and Demonstrations

Chemicals	Flinn Scientific Catalog No.	Properties of Elements	Percent Water in a Hydrate	Paper Chromatography	Chromatography Challenge	Separating a Mixture by Filtration	Classifying Matter Worksheets	Polyurethane Foam	Analysis of Dye Mixtures	Simple Distillation
Acetone	A0009						optional	80 mL		
Aluminum shot	A0262	30 g								
Boiling stones	B0136									1
Charcoal block	C0203	1				5 g				
Copper(II) chloride solution, 0.1 M	C0382	150 mL								
Copper(II) sulfate, pentahydrate	C0102		10 g							
Eosin Y	E0023								1 g	
Ethyl alcohol, anhydrous	E0012							50 mL		
Fluorescein	F0043								1 g	
Food dye set	V0003						optional			1
Hydrochloric acid solution, 1 M	H0013	150 mL				150 mL				
Iron wire, 18 gauge	I0050	30 cm								
Magnesium ribbon	M0139	30 cm								
Manganese(II) chloride, tetrahydrate	M0027		10 g							
Methylene blue	M0072								1 g	
Polyurethane foam system	C0335							1		
Safranin O	S0339								1 g	
Salicylic acid	S0341					6 g				
Silicon	S0012	20 g								
Sodium hydroxide solution, 0.2 M	S0244					350 mL				
Sulfur roll	S0140	10 g								
Tin shot	T0057	30 g								
Zinc shot	Z0021	30 g								
Zinc sulfate, heptahydrate	Z0023		10 g							
Glassware										
Beakers										
100-mL	GP1010								4	
150-mL	GP1015	15								
250-mL	GP1020			15						
400-mL	GP1025								4	
Erlenmeyer flasks, 50-mL	GP3021					30				

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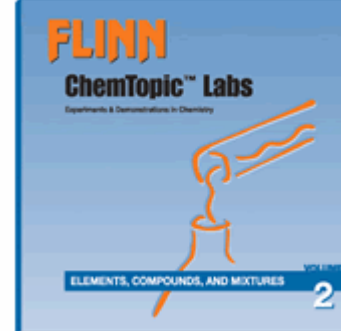
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Glassware, continued										
Filter funnel, short stem	GP5045					15				
Graduated cylinders										
25-mL	GP2010					15				
50-mL	GP2015							1		
Organic distillation set	AP6351									1
Stirring rod	GP5075					15		1		
Test tubes										
13 × 100 mm	GP6063	120								
18 × 150 mm	GP6067		15							
Watch glasses										
75-mm	GP8007			15		30				
90-mm	GP8008								4	
General Equipment and Miscellaneous										
Balance, centigram (0.01-g precision)	OB2059		3			3				
Bunsen burner	AP5344		15							1
Chromatography paper	AP8466			8						
Chromatography pen set	AP8466			1						
Clamp, buret, plain jaw	AP8354		15							
Clamp, buret, coated jaw	AP1034									2
Conductivity tester	AP1493	5								
Cups, clear plastic, 10 oz.	AP6542				45			2		
Filter paper, 12.5 cm diameter	AP3104				100					
Filter paper, 11.0 cm diameter	AP8997					30			1	
Hammer	AP4436	1								
Magnifying glass	AB1134					15				
Marking pens	AP1297	15								
Metric ruler	AP4684			15					1	
Periodic tables	AP9020	15								
Pipets, Beral-type, graduated	AP1721	30				30			4	
Pipets, Beral-type, micro tip	AP1719								16	
Reaction plate, 24-well	AP1447								1	

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General Equipment and Miscellaneous, continued										
Ring support, 2-inch	AP8230					15				
Scissors, student	AP5394			15	15				1	
Spatula	AP8338	15	15			15				
Stopcock grease	AP1095									optional
Support stand	AP8226		15			15				2
Test tube clamp	AP8217		15							
Test tube rack	AP1319	15								
Thermometer	AP1357									1
Thin-layer chromatography sheet	AP9095							1		
Tubing, rubber, 5/16 inch	AP8278									2 pieces
Ultraviolet lamp, hand-held	AP1901			optional						
Wash bottle	AP1668	15				15				
Water, distilled or deionized	W0007 W0001	✓		✓		✓				
Weighing dishes	AP1278		15			15				
Wire gauze with ceramic center	AP8350		15							