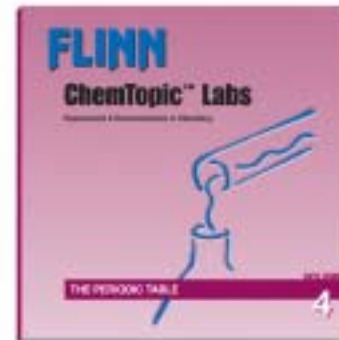


The Periodic Table— Master Materials Guide



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

Experiments and Demonstrations[§]

Chemicals	Flinn Scientific Catalog No.	It's in the Cards	Density Is a Periodic Property	Periodic Trends and Properties of Elements	All in the Family	Periodic Activity of Metals	Safe Swimming with Sodium	Plotting Trends	Ultimate Element Crossword Puzzle	Solubility Patterns
Aluminum foil	A0019			30 cm × 30 cm						
Ammonia water, 1.0 M	A0038				90 mL					
Ammonium hydroxide solution, 6 M	A0192									4 mL
Ammonium oxalate solution, 0.25 M	A0198									4 mL
Barium chloride solution, 0.1 M —or— Barium chloride dihydrate	B0143 B0170			45 mL 2.4 g						6 mL
Bromine water	B0166				15 mL					
Calcium chloride solution, 0.1 M —or— Calcium chloride dihydrate	C0234 C0196			45 mL 1.5 g						6 mL
Calcium turnings	C0345			8 g		0.5 g				
Chlorine water	C0055				15 mL					
Hexane	H0046				90 mL					
Hydrochloric acid, 0.5 M	H0035			45 mL						
Iodine solution, 0.05 M	I0148				15 mL					
Lead shot	L0008		500–600 g							
Lithium	L0057					0.5 g	optional			
Magnesium chloride solution, 0.1 M —or— Magnesium chloride hexahydrate	M0121 M0146			45 mL 2.0 g						6 mL
Magnesium ribbon	M0139			30 cm	3 cm					
Mineral oil	M0064						200 mL			
Phenolphthalein solution, 0.5%	P0115				2 mL	1 mL				
Potassium chromate solution, 0.5 M	P0162									4 mL
Potassium iodate solution, 0.2 M —or— Potassium iodate powder	P0168 P0063			75 mL 4.3 g						
Silicon lumps	S0013		120–150 g							
Silver nitrate solution, 0.1 M —or— Silver nitrate	S0305 S0274				45 mL 0.85 g					
Sodium bromide solution, 0.1 M —or— Sodium bromide	S0269 S0215				30 mL 5.2 g					
Sodium lumps	S0329					0.5 g	0.5 g			

[§]Many of these experiments and demonstrations will be adapted into student laboratory kits.
Consult your current *Flinn Scientific Catalog/Reference Manual* for kit availability.

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The Periodic Table— Master Materials Guide



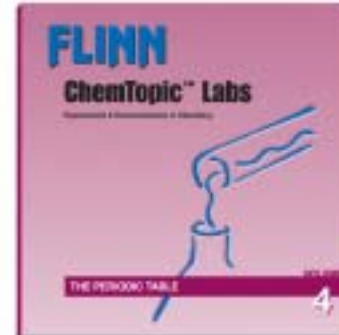
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Experiments and Demonstrations

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Chemicals, continued										
Sodium carbonate solution, 1 M —or— Sodium carbonate monohydrate	S0234 S0054			75 mL 12.4 g						4 mL
Sodium chloride solution, 0.1 M —or— Sodium chloride	S0237 S0061				30 mL 0.3 g					
Sodium iodide solution, 0.1 M —or— Sodium iodide	S0245 S0083				30 mL 0.75 g					
Sodium sulfate solution, 1 M —or— Sodium sulfate decahydrate	S0352 S0225			75 mL 32 g						4 mL
Strontium chloride solution, 0.1 M —or— Strontium chloride hexahydrate	S0255 S0357			45 mL 2.7 g						6 mL
Tin shot	T0016		400–500 g							
Glassware										
Beakers, 50-mL	GP1005		45							
Beakers, Pyrex®, Berzelius, 400-mL	GP1059					4				
Graduated cylinders, 25-mL	GP2010		15							
Hydrometer cylinder, 600-mL	AP8599						1			
Test tubes, 12 × 75 mm	GP6062				90					
Stirring rods	GP5075				15					
General Equipment and Miscellaneous										
Balance, centigram (0.01-g precision)	OB2059		3							
ChemCam™ Video Camera	AP4560					optional				
Forceps	AP8328		15	15						
Hot plate	AP8386		optional							
Laboratory Techniques Guide, pkg of 30	AP6248		1	1	1					
Litmus paper, red	AP7945			1 vial						
Matches	AP1935			optional						
Periodic Table of the Elements, notebook size, pkg of 50	AP9020		1	1	1			1	1	
Petri dishes, Pyrex®	AP3019					4				
Pipets, Beral-type	AP1721			150	135					9

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General Equipment and Miscellaneous, cont'd.										
Reaction plate, 24-well	AP1447			15						1
Reaction plate, 96-well	AP1448							7		
Ring, support with rod clamp, 3-inch	AP1320					1				
Ruler, metric	AP5386							7		
Scissors	AP5394							7		
Stoppers, cork, size 2	AP8302				90					
Straws, plastic, pkg of 500	AP6025							1		
Support stand	AP8228					1				
Test tube rack	AP1319				15					
Thermometer, digital	AP6049			15						
Tongs	AP8236		15							
Water, distilled or deionized	W0007			✓	✓	✓	✓			✓
Wax pencil*	AP8292		15		15					

*Or other pens for labeling