

# Atomic and Electron Structure— Master Materials Guide



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

## Experiments and Demonstrations

	Flinn Scientific Catalog No.	Bean Bag Isotopes	Atomic Target Practice	Quantum Leap Lab	Flame Tests	Atomic Spectra	Atomic Coatings	Think Tube	Energy in Photons	Measuring the Size of a Molecule	Photoelectric Effect	Whoa! Aaaa! Flame Tests
<b>Chemicals</b>												
Calcium chloride	C0196				8 g							
Copper, foil, (0.005 inches thick)	C0137									9 cm		
Cupric chloride	C0212				8 g							7 g
Ethyl alcohol, anhydrous	E0007								140 mL			
Hydrochloric acid solution, 6 M	H0056					750 mL						
Lithium chloride	L0095				8 g							7 g
Methyl alcohol, anhydrous	M0054											50 mL
Oleic acid	Q0025								5 mL			
Potassium chloride	P0183				8 g							7 g
Sandpaper	S0165									1 sheet		
Sodium chloride	S0061				8 g							7 g
Strontium chloride	S0129				8 g							7 g
Talc	T0001								1 bottle			
Zinc, foil, (0.010 inches thick)	Z0008									9 cm		
<b>Glassware</b>												
Beakers												
250-mL	GP1020				30		15					
400-mL	GP1025						15					
600-mL	GP1030											1
Graduated cylinder, 10-mL	GP2005								1			
Petri dish and cover, Pyrex®	GP3019											5
<b>General Equipment and Miscellaneous</b>												
Balance, centigram (0.01-g precision)	OB2059	3					3					
Bunsen burner	AP5344				15							
Butane lighter	AP8960											1
Ceramic fiber squares	AP1240											5
Colored pencils, assorted	FB0643					15						
Electroscope, Flask form	AP5638										1	
Energy in Photons Kit	AP4576								1			
Felt tip pen	AP1297	15										
Fire extinguisher	SE3001											1
Flashlight	AP4389										1	

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<b>General Equipment and Miscellaneous, con't.</b>												
Flinn C-Spectra — or — Holographic diffraction grating	AP1714 AP1047				optional	1						
Forceps	AP8328						15					
Galvanized iron	I0064						30					
Glass plate	AP8263										1	
Laser pointer, pocket	AP4667										1	
Meter stick	AP8294			15					1			
Metric ruler	AP4684					15						
Petri dish, disposable	AP8170		optional									
Pipet, Beral-type, graduated	AP1721								1			
Pipet, Beral-type, jumbo	AP8850											1
Power supply	AP1327					2						
Reaction plate, 24-well	AP1447		optional									
Ring clamp	AP8232					optional						
Rubber friction rod	AP9169										1	
Rubber stopper, size 2	AP2224		28									
Scissors, heavy-duty	AP8949						1					1
Scoop	AP8338				15							
Spectroscope	AP6040					15						
Spectrum tubes												
Helium	AP1333					2						
Hydrogen	AP1334					2						
Mercury	AP1337					2						
Neon	AP1338					2						
Student laboratory notebook	AP6115			1								
Support stand	AP8226					optional						
Think Tube Demonstration Kit	AP6149							1				
UV lamp, Long wave/Short wave	AP5725										1	
Water, distilled or deionized	W0007 W0001				✓							
Weighing dishes, medium	AP1278				105							
Weighing dishes, large	AP1279	60										
Wooden splints	AP4455				105							
Wool friction pad	AP9206								1			