

# Nuclear Chemistry— Master Materials Guide



(for a class of 30 students working in pairs)

## Experiments and Demonstrations

	Flinn Scientific Catalog No.	Up in the Clouds	Natural Radiation	Properties of Nuclear Radiation	Half-life Simulation*	Carbon-Dating Activity**	Salt with a Sparkle	Red Licorice Decay	Radioactive Decay Cards	Quantitative Shielding
<b>Chemicals</b>										
Aluminum sheet	A0017			1						
Isopropyl alcohol, 70%	I0021	25 mL								
Lead sheet	L0089			1						
Potassium chloride	P0183		20 g							
<b>Glassware</b>										
Watch glass	GP8006		10							
<b>General Equipment and Miscellaneous</b>										
Absorber set†	SPEC3180									1
Balance, centigram (0.01-g precision)	OB2059		3							
Ceramic fiber squares	AP1242	7								
Clamp holder	AP8219		5							
Clamp, universal extension	AP1038		5							1
Cloud chamber	AP8807	7								
Cotton balls	FB0680	7								
Flashlight	AP4389	7								
Gloves, autoclave‡	AP8876	1								
Hot plate	AP4674						1			
Irradiated Salt	AP6613						1			
LabPro™ Interface System	TC1500		5	6						1
Lantern mantles	AP5881	7								
Logger Pro™ software	TC1421		1	1						1
Metric ruler	AP4684		5	6				1		1
Pipets, Beral-type, graduated	AP1721	7								
Radiation monitor	TC1529		5	6						1
Radioactive Decay Cards	AP4555							1		
Radioactive source kit	AP8796			2						1
Scissors, heavy-duty	AP8949			1						
Silk friction pad	AP9208	1								
Spatula	AP8338		10							
Support stand	AP8226		5							1

\*Household items. Also available as a kit from Flinn Scientific.

†Available as a special order from Flinn Scientific.

‡Zetex™ gloves, AP3240, are made to withstand very low temperatures, but autoclave gloves are suggested because they allow for safe, yet less clumsy, handling of dry ice pieces.

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