Name:	
vario.	

PRE-LAB #14 ATOMIC & NUCLEAR PHYSICS

Before starting the laboratory session, be sure read *Investigation #14: Atomic & Nuclear Physics* and then answer the following questions:

Physics and then answer the following questions:		
1.	What is meant by the term <i>half-life</i> ?	
2.	In the simulation described in Part I , the "half-life" of the pennies will be <u>less</u> than that of the dice. Why do you suppose that is the case?	
3.	Briefly describe how you will simulate the measurement of the size of an atomic nucleus in ${\bf Part}~{\bf II}$.	
4.	In Part III , you will simulate a <i>critical</i> and a <i>supercritical</i> chain reaction using dominoes. How will the dominoes be arranged for the "critical case" and how will they be arranged for the "supercritical case?"	
5.	In Part IV , you will look at the color spectrum of four different gases and two other light sources. What are these other two sources?	

2)

1)