

**Physics Interactive Quiz : Nuclear Physics Name:**

#	4	question	Answer	#ARG!	<--score
# 1	6	grams of a substance has a half life of 2 minutes. How much is left after 8 minutes?		0	
# 2	6	How much was present 8 minutes earlier than the beginning of the experiment?		0	
# 3	4	years is the half life of an isotope. What fraction of the original sample is left after two half lives?		0	
# 4	1	an alpha particle hits Be <sup>9</sup> / <sub>4</sub> , emitting a neutron and what?		#ARG!	
# 5	1	a neutron hits Boron <sup>10</sup> / <sub>5</sub> emitting an alpha particle and what?		#ARG!	
# 6	1	How many neutrons are in Uranium 238?		0	
# 7	1	Carbon 14 decays into Nitrogen 14 with an electron. If the mass lost is 0.000168 amu, how much energy is this in MeV?		0	
# 8	1	U <sup>235</sup> decays into Xe <sup>140</sup> / <sub>54</sub> and Sr <sup>94</sup> / <sub>38</sub> when hit by a neutron. What else is left?		#ARG!	
# 9	6.25	percent of the original carbon 14 is found in a sample. Carbon 14 has a half life of 5730 years. How old is the sample?		0	
# 10	6.25	How many half lives is this?		0	

**Extra Credit:**