

## Radioactive Decay, Decay Series, and Half Lives Quiz

1. True or False: Alpha, Beta and Gamma all expel mass through decay	A. True B. False
2. Do half lives for radioactive isotopes vary greatly?	A. not at all B. a little C. greatly D. within 100 years
3. What is the symbol for alpha decay?	A. $4_2\text{He}$ B. $0_{-1}\text{B}$ C. $2_4\text{Omega}$ D. $1_0\text{n}$
4. If a half life is 2000 years, will a large amount of this radioactive sample be around for a long time?	A. Yes B. No
5. When beta decay occurs, does the element change?	A. Yes B. No