

## Nuclear Chemistry: Identifying Forms of Radiation

Nuclear reactions are quite different than chemical reactions in that they involve a change inside the nucleus rather than an exchange or sharing of electrons. An unstable nucleus decays into a products that are more stable. When an unstable nucleus decays, it releases radiation in the form of alpha particles, beta particles, and/or positrons.

Alpha Decay:	${}_{94}^{239}\text{Pu} \longrightarrow {}_{92}^{235}\text{U} + {}_2^4\text{He}$
Beta Decay:	${}_{27}^{60}\text{Co} \longrightarrow {}_{28}^{60}\text{Ni} + {}_{-1}^0\beta$
Positron Emission:	${}_{20}^{37}\text{Ca} \longrightarrow {}_{19}^{37}\text{K} + {}_{+1}^0\beta$

**Directions:** Place a check to identify the form of radiation demonstrated by each reaction below.

	Alpha	Beta	Positron
1. ${}_{91}^{234}\text{Pa} \longrightarrow {}_{92}^{234}\text{U} + {}_{-1}^0\beta$			
2. ${}_{86}^{222}\text{Rn} \longrightarrow {}_{84}^{218}\text{Po} + {}_2^4\text{He}$			
3. ${}_{19}^{37}\text{K} \longrightarrow {}_{18}^{37}\text{Ar} + {}_{+1}^0\beta$			
4. ${}_{43}^{99}\text{Tc} \longrightarrow {}_{44}^{99}\text{Ru} + {}_{-1}^0\beta$			
5. ${}_{10}^{19}\text{Ne} \longrightarrow {}_9^{19}\text{F} + {}_{+1}^0\beta$			
6. ${}_{15}^{32}\text{P} \longrightarrow {}_{16}^{32}\text{S} + {}_{-1}^0\beta$			
7. ${}_{92}^{238}\text{U} \longrightarrow {}_{90}^{234}\text{Th} + {}_2^4\text{He}$			
8. ${}_{26}^{53}\text{Fe} \longrightarrow {}_{25}^{53}\text{Mn} + {}_{+1}^0\beta$			
9. ${}_{87}^{220}\text{Fr} \longrightarrow {}_{85}^{216}\text{At} + {}_2^4\text{He}$			

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**RD Boyd**



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**Monthly Catalogue, United States Public Documents**, 1980

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**Resources in Education**, 1974

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**Reaffirming Rehabilitation** Francis T. Cullen, Karen E. Gilbert, 2013 Reaffirming Rehabilitation 2nd Edition brings fresh insights to one of the core works of criminal justice literature This groundbreaking work analyzes the rehabilitative ideal within the American correctional system and discusses its relationship to and conflict with political ideologies Many researchers and policymakers rejected the value of rehabilitation after Robert Martinson s proclamation that nothing works Cullen and Gilbert s book helped stem the tide of negativism that engulfed the U S correctional system in the years that followed the popularization of the nothing works doctrine Now Cullen traces the social impact on U S corrections policy This new edition is appropriate as a textbook in corrections courses and as recommended reading in related courses It also serves as a resource for researchers and policymakers working in the field of corrections

**Instructional Video and Film Catalog Through** University of Colorado Boulder. Academic Media Services, 1984

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