

BALANCING NUCLEAR REACTIONS WORKSHEET

Predict the missing product or reactant in the following nuclear reactions. Determine the type of nuclear reaction (α emission, β emission, γ emission, positron emission, artificial transmutation, fission, or fusion) described. (30 points)

Write the missing product or reactant	Type of Nuclear Reaction
1. ${}_{19}^{42}\text{K} \rightarrow {}_{-1}^0\text{e} + \underline{\hspace{2cm}}$	
2. ${}_{94}^{239}\text{Pu} \rightarrow {}_2^4\text{He} + \underline{\hspace{2cm}}$	
3. ${}_{92}^{235}\text{U} \rightarrow \underline{\hspace{2cm}} + {}_{90}^{231}\text{Th}$	
4. ${}_1^1\text{H} + {}_1^3\text{H} \rightarrow \underline{\hspace{2cm}}$	
5. ${}_3^6\text{Li} \rightarrow {}_0^1\text{n} \rightarrow {}_2^4\text{He} + \underline{\hspace{2cm}}$	
6. ${}_{13}^{27}\text{Al} + {}_2^4\text{He} \rightarrow {}_{15}^{30}\text{P} + \underline{\hspace{2cm}}$	
7. ${}_4^9\text{Be} + {}_1^1\text{H} \rightarrow \underline{\hspace{2cm}} + {}_2^4\text{He}$	
8. ${}_{19}^{37}\text{K} \rightarrow {}_{+1}^0\text{e} + \underline{\hspace{2cm}}$	
9. $\underline{\hspace{2cm}} + {}_0^1\text{n} \rightarrow {}_{56}^{142}\text{Ba} + {}_{36}^{91}\text{Kr} + 3{}_0^1\text{n}$	
10. ${}_{92}^{238}\text{U} + {}_2^4\text{He} \rightarrow \underline{\hspace{2cm}} + {}_0^1\text{n}$	
11. ${}_6^{14}\text{C} \rightarrow {}_7^{14}\text{N} + \underline{\hspace{2cm}}$	
12. ${}_{75}^{187}\text{Re} + \underline{\hspace{2cm}} \rightarrow {}_{75}^{188}\text{Re} + {}_1^1\text{H}$	
13. ${}_{11}^{22}\text{Na} + \underline{\hspace{2cm}} \rightarrow {}_{10}^{22}\text{Ne}$	
14. ${}_{84}^{218}\text{Po} \rightarrow \underline{\hspace{2cm}} + {}_2^4\text{He}$	
15. ${}_{99}^{253}\text{Es} + {}_2^4\text{He} \rightarrow {}_0^1\text{n} + \underline{\hspace{2cm}}$	

Worksheet 9 2 Nuclear Reactions Key

Michael Seilmaier

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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