

## NUCLEAR CHEMISTRY

### BALANCING NUCLEAR REACTIONS WORKSHEET

Predict the missing product or reactant in the following nuclear reactions. Determine the type of nuclear reaction ( $\alpha$  emission,  $\beta$  emission,  $\gamma$  emission, positron emission, artificial transmutation, fission, or fusion) described.

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

Write the Balanced nuclear equations for the alpha decay of:

a) Plutonium-234

b) Strontium-90

Write the balanced nuclear equations for the alpha, beta and gamma decay of Radium-226

# Chapter 25 Nuclear Chemistry Worksheet

**SJ Ball**



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