

Nuclear Chemistry Worksheet

1. Name the principal types of radiation.

- a) _____ b) _____
c) _____ d) _____
e) _____ f) _____

2. Which of the following is the most penetrating type of radiation? _____ Which is least penetrating? _____

- a) alpha b) beta c) gamma d) positrons

3. Balance these nuclear equations.

- a) $^{35}\text{Cl} + {}^1_0\text{n} \rightarrow {}^{35}\text{S} + \underline{\hspace{2cm}}$ c) $^{108}\text{Ag} \rightarrow {}^0_{-1}\text{e} + \underline{\hspace{2cm}}$
b) $^{229}\text{Th} \rightarrow {}^4_2\text{He} + \underline{\hspace{2cm}}$ f) $\underline{\hspace{2cm}} + {}^0_{-1}\text{e} \rightarrow {}^{54}\text{Cr}$
c) $^{20}\text{O} \rightarrow {}^{20}\text{F} + \underline{\hspace{2cm}}$ g) $^{238}\text{U} + {}^{12}\text{C} \rightarrow {}^{246}\text{Cr} + \underline{\hspace{2cm}}$
d) $^{54}\text{Fe} + {}^1_0\text{n} \rightarrow {}^1_1\text{H} + \underline{\hspace{2cm}}$ h) $\underline{\hspace{2cm}} + {}^0_{-1}\text{e} \rightarrow {}^{207}\text{Pb}$

4. Write balanced equations for these nuclear reactions.

- a) neutron emission by ^{88}Br

b) electron absorption by ^{116}Sb

c) positron emission by ^{184}Hg

d) alpha emission by ^{229}Th

e) neutron capture by ^{200}Hg

Unit 8 Nuclear Chemistry Worksheet Answers

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