

+ WS 6.2 - Nuclear Reactions

Complete each of the following nuclear reactions by determining the missing particle, then **name** that particle ("alpha particle" or "uranium-233", etc...) #1 is an example...



15. Write the reaction for a Rn-224 atom undergoing 1 beta decay: What is the daughter? _____

16. Write the reaction for a Po-218 atom undergoing 1 alpha decay: What is the daughter? _____

17. What particle is produced when a U-234 atom undergoes a series of two alpha decays and three beta decays?

18. Pb-210 undergoes a series of alpha and beta decays to end up eventually as Ir-198. How many alpha particles and how many beta particles were emitted in all? Hint: do alpha's first, then beta's. $\alpha =$ _____ $\beta =$ _____

(show work)

Ans(180): #1-17: alpha particle beta particle barium-142 deuteron francium-224 lead-214 positron
potassium-40 protactinium-226 proton 3-protons neutron neutron 2-neutrons tellurium-144 uranium-233

symbol	name
${}^4_2\text{He} + 2$ or α	alpha particle (a helium nucleus)
${}^0_{-1}\text{e}$ or β	beta particle (an electron)
${}^0_{+1}\text{e}$	positron (a positive electron??)
${}^1_0\text{n}$	neutron
${}^1_1\text{p}$ or ${}^1_1\text{H} + 1$	proton (hydrogen-1 nucleus)
${}^2_1\text{H} + 1$	deuteron (hydrogen-2 nucleus)

Radioactivity And Nuclear Reactions Worksheet Answer Key

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