

Download File PDF Nuclear Equations Answer Key

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Nuclear Equations Answer Key

Writing Nuclear Equations
Complete the nuclear equations for the decays below. The first two have been done for you as an example.

- Americium - 241 decays by alpha emission.
 ${}^{241}_{89}\text{Am} \rightarrow {}^{237}_{87}\text{Fr} + {}^4_2\alpha$
- Carbon - 14 decays by beta emission.
 ${}^{14}_6\text{C} \rightarrow {}^{14}_7\text{N} + {}^0_{-1}\beta$
- Bismuth - 211 decays by alpha emission.
 ${}^{211}_{83}\text{Bi} \rightarrow {}^{207}_{81}\text{Tl} + \alpha$
- Polonium - 204 decays by alpha emission.
 ${}^{204}_{84}\text{Po} \rightarrow {}^{200}_{82}\text{Pb} + \alpha$
- Radium - 224 decays by alpha emission.
 ${}^{224}_{88}\text{Ra} \rightarrow {}^{220}_{86}\text{Rn} + {}^4_2\alpha$
- Uranium - 235 decays by alpha emission.
 ${}^{235}_{92}\text{U} \rightarrow {}^{231}_{90}\text{Th} + {}^4_2\alpha$
- Neptunium - 237 decays by alpha emission.
 ${}^{237}_{93}\text{Np} \rightarrow {}^{233}_{91}\text{Pa} + \alpha$
- Strontium - 90 decays by beta emission.
 ${}^{90}_{38}\text{Sr} \rightarrow {}^{90}_{39}\text{Y} + \beta$
- Phosphorus - 32 decays by beta emission.
 ${}^{32}_{15}\text{P} \rightarrow {}^{32}_{16}\text{S} + \beta$
- Nickel - 63 decays by beta emission.
 ${}^{63}_{28}\text{Ni} \rightarrow {}^{63}_{29}\text{Cu} + {}^0_{-1}\beta$
- Lead - 209 decays by beta emission.
 ${}^{209}_{82}\text{Pb} \rightarrow {}^{209}_{83}\text{Bi} + {}^0_{-1}\beta$
- Hydrogen - 3 decays by beta emission.
 ${}^3_1\text{H} \rightarrow {}^3_2\text{He} + \beta$