

BLM – It's All Greek to Me: Radioactive Decay

Nuclear Decay Reactions Cut & Paste Answer Page

$^{238}_{92}\text{U} \rightarrow ^{234}_{90}\text{Th} + ^4_2\text{He}$	α	Alpha decay
$^{234}_{90}\text{Th} \rightarrow ^{234}_{91}\text{Pa} + ^0_{-1}\text{e}$	$\beta^- \gamma$	Beta decay, gamma rays
$^{234}_{91}\text{Pa} \rightarrow ^{234}_{92}\text{U} + ^0_{-1}\text{e}$	$\beta^- \gamma$	Beta decay, gamma rays
$^{234}_{92}\text{U} \rightarrow ^{230}_{90}\text{Th} + ^4_2\text{He}$	$\alpha \gamma$	Alpha decay, gamma rays
$^{230}_{90}\text{Th} \rightarrow ^{226}_{88}\text{Ra} + ^4_2\text{He}$	$\alpha \gamma$	Alpha decay, gamma rays
$^{226}_{88}\text{Ra} \rightarrow ^{222}_{86}\text{Rn} + ^4_2\text{He}$	$\alpha \gamma$	Alpha decay, gamma rays
$^{222}_{86}\text{Rn} \rightarrow ^{218}_{84}\text{Po} + ^4_2\text{He}$	α	Alpha decay
$^{218}_{84}\text{Po} \rightarrow ^{214}_{82}\text{Pb} + ^4_2\text{He}$	α	Alpha decay
$^{214}_{82}\text{Pb} \rightarrow ^{214}_{83}\text{Bi} + ^0_{-1}\text{e}$	$\beta^- \gamma$	Beta decay, gamma rays
$^{214}_{83}\text{Bi} \rightarrow ^{214}_{84}\text{Po} + ^0_{-1}\text{e}$	$\beta^- \gamma$	Beta decay, gamma rays
$^{214}_{84}\text{Po} \rightarrow ^{210}_{82}\text{Pb} + ^4_2\text{He}$	α	Alpha decay
$^{210}_{82}\text{Pb} \rightarrow ^{210}_{83}\text{Bi} + ^0_{-1}\text{e}$	$\beta^- \gamma$	Beta decay, gamma rays
$^{210}_{83}\text{Bi} \rightarrow ^{210}_{84}\text{Po} + ^0_{-1}\text{e}$	$\beta^- \gamma$	Beta decay, gamma rays
$^{210}_{84}\text{Po} \rightarrow ^{206}_{82}\text{Pb} + ^4_2\text{He}$	α	Alpha decay