

# URANIUM 238 (U238) RADIOACTIVE DECAY

## Nuclear Transformations

type of radiation	nuclide	half-life
	 uranium-238	4.47 billion years
$\alpha$	 thorium-234	24.1 days
$\beta$	 protactinium-234m	1.17 minutes
$\beta$	 uranium-234	245000 years
$\alpha$	 thorium-230	8000 years
$\alpha$	 radium-226	1600 years
$\alpha$	 radon-222	3.823 days
$\alpha$	 polonium-218	3.05 minutes
$\alpha$	 lead-214	26.8 minutes
$\beta$	 bismuth-214	19.7 minutes
$\beta$	 polonium-214	0.000164 seconds
$\alpha$	 lead-210	22.3 years
$\beta$	 bismuth-210	5.01 days
$\beta$	 polonium-210	138.4 days
$\alpha$	 lead-206	stable

# 52 Nuclear Transformations Answers

**Martin V. Melosi**



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now using the half life equation in example 1 we have

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web solution if we compare the time that has passed to the isotope s half life we note that 44 0 s is exactly 4 half lives so

using the previous equation n 4 substituting and solving results in the following less than one third of a gram of  $^{20}\text{F}$  remains  
skill building exercise the half life of  $^{44}\text{Ti}$  is 60 0 y

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web solution 7 2 2 4 3 half lives 1 2 0 125 the amount remaining after 3 half lives  $100.0\text{ g} \times 0.125 = 12.5\text{ g}$  remaining problem 2  
pd 100 has a half life of 3 6 days if one had  $6.02 \times 10^{23}$  atoms at the start how many atoms would be present after 20 0 days  
solution 20 0 3 6 5 56 half lives

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