

14 Kernfysica – werkboek

vwo

14.1 Het verval van atoomkernen

6*

atoom	aantal protonen	massagetal	aantal neutronen
lithium Li	3	7	4
natrium Na		23	
cobalt Co			32
goud Au			118
	26	56	
	42	99	
	82	208	
uranium U			146
plutonium Pu		244	

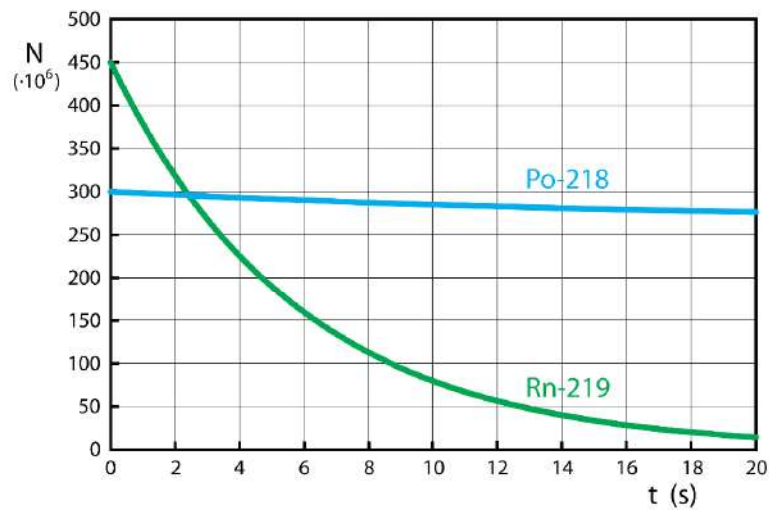
7*

atoom	aantal protonen	aantal neutronen	notatie 1	notatie 2
helium He	2	1	${}^3_2\text{He}$	He-3
koolstof C		8		
zuurstof O		10		
silicium Si		16		
kalium K		22		

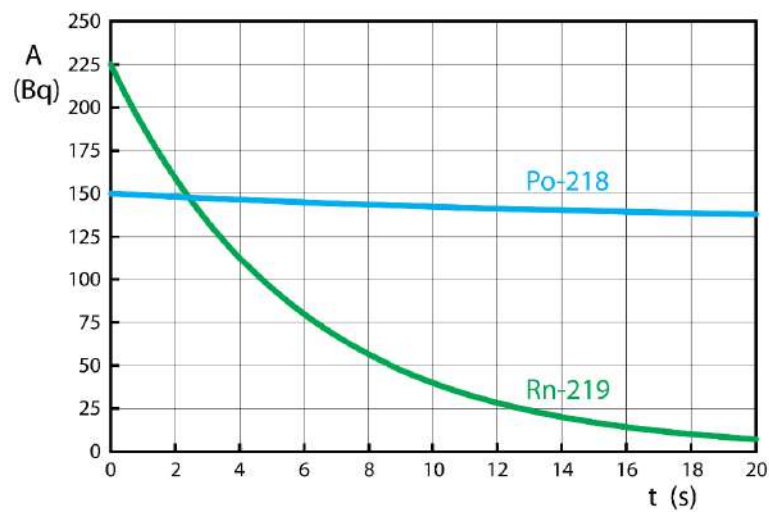
ijzer Fe		33		
zilver Ag		63		
kwik Hg		123		
lood Pb		132		

14.2 De snelheid van radioactief verval

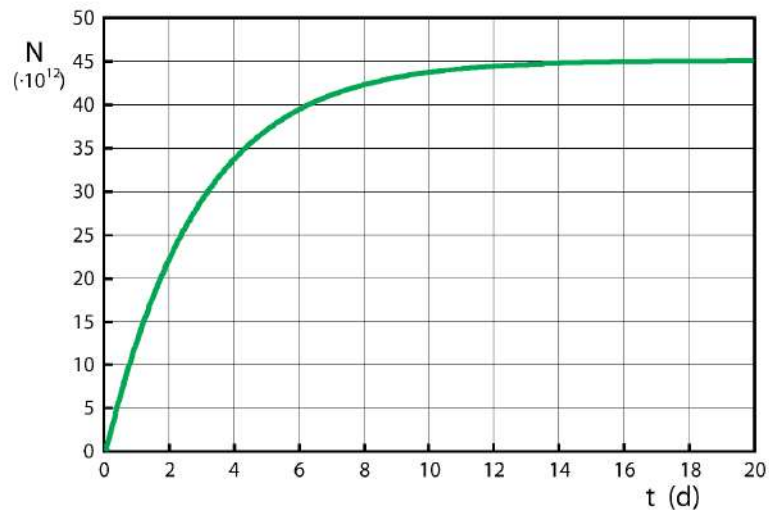
20 ***



21 ***



22 ***



14.3 Ioniserende straling

14.4 Detectie van straling

2 **

a

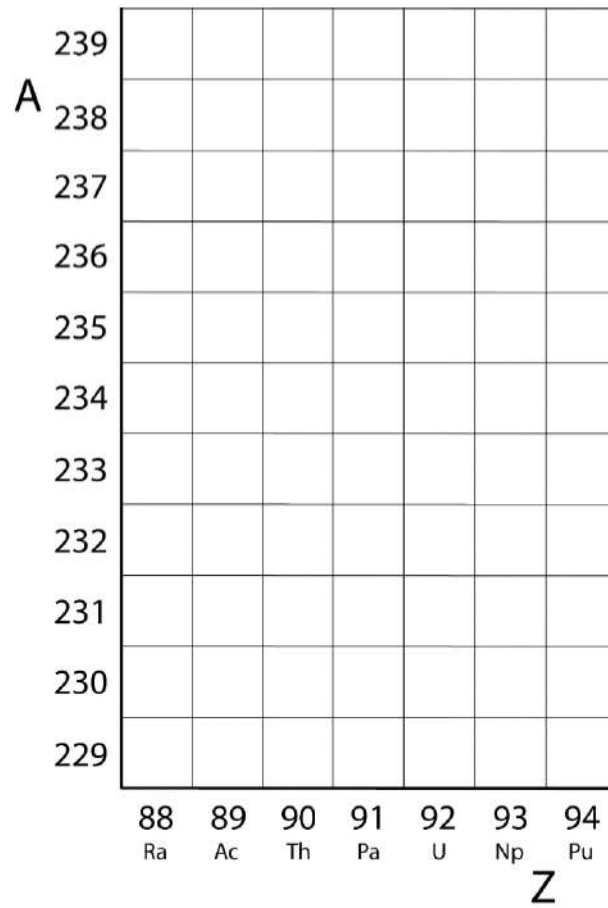
b

c

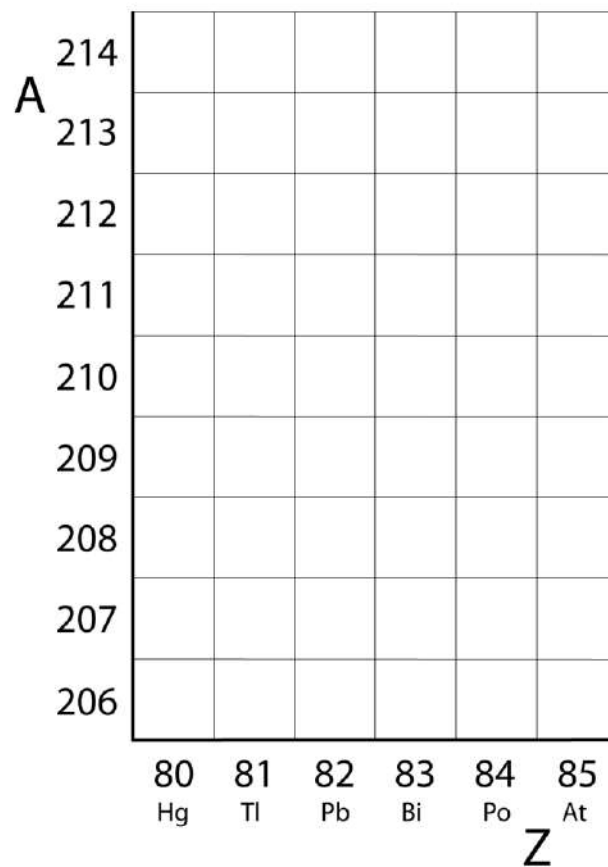
14.5 Absorptie van straling door materie

14.6 Kernreacties

1***



3***



Examenvragen havo

Technetium-99

