

Science: Chapter 4 Unit 4

Topic: unstable Nuclei and Radioactive Decay

Textbook page 122- 124

Radioactivity and types of Radiation

1. Complete the table :

Radiation Type			
	Alpha	Beta	Gamma
Symbol	α (${}^4_2\text{He}$)		
Mass (amu)		1/1840	
Charge			0

2. Explain the radioactivity by completing the paragraph below. Use the Word Bank

Involves	rearranged	radioactive decay	radiation
identities	protons or neutrons	stability	nuclear
too many neutrons	particles	electrons	

In chemical reactions, atoms may be _____, but their _____, do not change.

The rearrangement _____ only the _____, of the atoms, not the _____.

In _____ reactions, _____ gain stability by emitting _____.

As a result of _____ in the nucleus, the atom's _____ change.

_____ will continue emitting _____, in a process called _____, until stable nuclei are formed.

