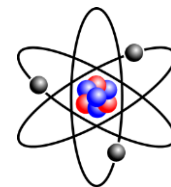


Unit Overview – Atomic Changes - Radioactivity



You will learn about:

You learn about the different types of radioactive decay, their uses and hazards.

You will be able to:

Be able to use nuclear equations to show the elements formed from alpha and beta decay.

Key learning points		Key Words
Radioactive decay		Beta particle
Nuclear equations		Gamma ray
Half life		Radioisotope
Contamination		Neutron radiation
Hazards and uses of radioactive emissions (Triple only)		Background radiation
Nuclear fission and nuclear fusion (Triple only)		Nuclear equation
		Half-life
		Radioactive contamination
		Tracer
		Irradiation
		Ionise
		Isotope
		Mass number
		Alpha particle
		Becquerel (Bq)
		Mutation
		Radiotherapy
		Tumour
		Chain reaction
		Control rods
		Fuel rods
		Nuclear fission
		Nuclear Fusion

Links to other subjects:

SMSC

Evaluate the impact of nuclear power stations and nuclear waste.

Numeracy

Emulating nuclear equations. Substituting numerical values into equations using appropriate units. Interpretation of graphs.

Literacy

Describe observations in practical work. Describing the differences between alpha, beta, gamma and neutron radiation.