Unit Overview – P4 Atomic structure

You will learn about:

You will study the properties of the particles that make up an atom. You learn about the different types of radioactive decay, their uses and hazards.

You will be able to:

Recall the relative change and mass of subatomic particles. Be able to use nuclear equations to show the elements formed from alpha and beta decay.

	Key Words
Key learning points	Beta particle
Atomic structure	Gamma ray
Radioactive decay	Radioisotope
Nuclear equations	Neutron radiation
Half life	Background radiation
Contamination	Nuclear equation
	Half-life
Links to other subjects:	Radioactive contamination
	Tracer
SMSC	Irradiation
Evaluate the impact of nuclear power stations and nuclear waste.	Mutation
	Radiotherapy
Numeracy	Tumour
Emulating nuclear equations. Substituting numerical values into equa	ations using Chain reaction
appropriate units. Interpretation of graphs.	Control rods
	Fuel rods
Literacy	Nuclear Tission
Describe observations in practical work. Describing the difference be	etween Atomic number
fusion and fission. Describing the differences between alpha, beta, ga	amma and Energy level
neutron radiation.	lonise
	Isotone
	Mass number
	Nucleon
	Activity
	Alpha particle
	Becquerel (Bg)

