High Tunstall College of Science Curriculum Intent

Subject: Physics Year: 9

Thread 2—Particles and radiation

	Physics Thread 2	Progress		
Topic	**Key ideas**	**R**	**A**	**G**
Particles and radiation	I can calculate the density of regular and irregular objects from practical work			
	I can explain what happens to particles, in terms of movement and thermal energy, during changes of state			
	I can recall the structure of an atom and explain what is meant by the term 'isotope'			
	I can name the three types of nuclear radiation, comparing the properties of each			

Lesson	Learning Focus	Assessment	Key Words
1	What is density and how can this be calculated?	Completion of practical activity and correct calculation of density	Density
2	What happens during changes of state?	Extended writing about changes of state	
3	What do atoms look like, and what are isotopes?	Completion of exam questions	Isotope
4	What is nuclear radiation?	Comparison of types of nuclear radiation	Radiation