



Year 10 Physics Combined 10S1

Learning Programme 5

PRT Task

		Literacy:
The Moral Virtues focus for this LP are: COURAGE and HUMILITY.		 Capital letters must be used at the start
Courage - Acting with bravery and overcoming fears.		of sentences and for the first letter of
Humility - Having a modest view of oneself.		 Full stops must be used at the end of a sentence
What will I be learning about in this Learning Programme?		
How the behaviour of particles affects the behaviour of substances. Structure of the atom. Nuclear radiation. Radioactive decay.		Question marks must be used at the
		end of a question Anostrophes should only be used for
Where have I can this learning hefere?		possession or omission
From KS3: properties of materials, the particle model, changes of state, energy changes. The structure of the atom is a fundamental con	cept that you learnt in	 Days of the week and months must be
KS3 and have since reviewed in Chemistry.		spelled correctly
		• Rey words must be spened correctly
What could I use it for?		
This knowledge is further built upon in the two topics: Electricity and Thermodynamics at A-level. Essential knowledge for careers in eng	ineering, catering and	
power will be crucial as we look to move to more carbon neutral energy.	iemistry. Nuclear	
In LP5.1. L will know: 12/05/25 - (WK 1)	Key Vocabulary	Homework
how to calculate density and undertake the density required practical	ney rocubulary	Sparx homework task
	density	
In LP5.2, I will know: 19/05/25 - (WK 2)	Key Vocabulary	Homework
how to define latent heat of fusion and vaporisation; how to apply the knowledge of specific latent heat to describe and calculate the		
energy changes that occur during heating/cooling and changes of state, using the equation E=mL.		
	vaporisation	
		Sparx homework task
LP5 RLW, I will: 02/06/25 - (WK 1)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		
In LP5.3, I will know: 09/05/25 - (WK 2)	Key Vocabulary	Homework
how to use kinetic theory to explain how the motion of particles relate to pressure , volume and temperature.		Sparx homework task
	pressure	
	P	
Extended Task.		
Extended Task. In LP5.4, I will know: 16/06/25 - (WK 1) bout to complete my and of year accessment:	Key Vocabulary	Homework
Extended Task. In LP5.4, I will know: 16/06/25 - (WK 1) how to complete my end of year assessment; how to review my end of year assessment.	Key Vocabulary	Homework Sparx homework task
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