

## Year 10 Physics Learning Programme 4

PRT Task (



Reading texts that pupils will study during the learning programme

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The value we are learning about is <b>Justice and Integrity</b> : lustice-Fairbehaviour or treatment			Week 1 - The National Grid, Week 3 - T Particle Model, Week 5 - Gas Pressur
			Particle Model, week 5 - Gas Pressure
ntegrity-Being honest and having strong moral principles			
What will I be learning about in this Learning Programme?			
Students are learning about the National Grid, and Particle Model. Students will learn how the the	ory of matter explains interr	nal energy and changes of	
states. Where have I seen this learning before?			
Students have studied energy transfer and the particle model at KS3.			
What could I use it for?			
Students will study Specific Latent Heat and Specific Heat Capacity in A Level Physics.			
In LP4.1, I will know: 11/03/24 - (WK 1)	PR Focus	KeyVocabulary	Homework
how to describe the parts of the National Grid;		Current, Voltage,	
how to describe and explain the function of Transformers.		Resistance, Charge, Amp	Checkpoint Quiz Molecules and Mat
		Ohm	
In LP4.2, I will know: 18/03/24 - (WK 2)	PRFocus	KeyVocabulary	Homework
how to calculate the density equation;		Mass, kilogram, Volume,	
how to calculate density for regular shaped objects;		Measuring Cylinder,	Homework - Molecules and Matter 1
how to calculate density for irregular shaped objects.		Balance	
In LP4.3, I will know: 08/04/24 - (WK 1)	PR Focus	KeyVocabulary	Homework
how to explain the different states of matter in relation to the particle model;		Solid, Liquid, Gas,	
how to describe and name physical state changes;		Melting, Boiling,	Homework - Molecules and Matter 2
how to calculateInternal Energy.		Freezing, Evaporating, Sublimation	
Extended Task		Subtiliduoli	
In LP4.4, I will know: 15/04/24 - (WK 2)	PRFocus	Koulloophuloon	Homework
how to use the Specific Latent Heat Calculations;	PRFOCUS	Key Vocabulary	Homework
independently and confidently re-arrange the SLH Equation for other variables.		Solid, Liquid, Gas, Melting, Boiling,	
		Freezing, Evaporating,	Progress Quiz - Molecules and Matter
		Sublimation	
In LP4.5, I will know: 22/04/24 - (WK 1)	PRFocus	Key Vocabulary	Homework
know to describe the Quantities Associated with Gas Pressure;		Volume, Pressure,	
know how changing one of these variables affects another.		Temperature, Pascals,	Progress Quiz - Molecules and Matter
		Particles	
In LP4.6, I will know: 29/04/24 - (WK 2)	PRFocus	Key Vocabulary	Homework
know how to measure G as Pressure and Volume;		Volume, Pressure,	
how changing one of these variables affects another.		Temperature, Pascals,	On your marks practise 1
		Particles	
Extended Task			
In LP4.7, I will know: 06/05/24 - (WK 1)	PRFocus	KeyVocabulary	Homework
how Gas Pressure can be explained;		Volume, Pressure,	
how to use the particle model to illustrate Gas Pressure.		Temperature, Pascals,	KerboodleExamQuestions
		Particles	
In LP4.8, I will know: 13/05/24 - (WK 2)	PR Focus	KeyVocabulary	Homework
how to graphically represent the Gas Laws;		Volume, Pressure,	
how to use the variables of Volume, Pressure and Temperature to draw conclusions.		Temperature, Pascals,	KerboodleExamQuestions
		Particles	
Resources to support learning:			
Resources to support learning: Kerboodle, SENECA, BBC Bitesize			

Attend an extra-curricular cub, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a nead or year breaktast or attend on tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.