Physics Year 9 curriculum map



Year 9	T1	T2	Т3	T4	Т5	Т6
Content / Topic for Term	Energy	Energy (cont)	Particle Model	Electricity	Electricity (cont)	Electricity (cont)
Key Knowledge for acquisition, recall and application in assessment or exam	 Working scientifically five lessons of practical skills Energy energy stores and Pathways gravitational potential energy 	 Energy (cont) kinetic energy elastic potential energy specific heat capacity power conduction efficiency thermal insulation 	Energy (cont) • renewable energy resources Particle model • density • changes of state • internal energy • specific latent heat	 Particle model (cont) gas pressure gas pressure and volume Electricity circuit symbols current, charge, resistance and potential difference Ohm's law series circuits 	 Electricity (cont) parallel circuits resistance of wire combinations of resistors lamps, LED, LDR and thermistor I-V characteristic AC/DC current 	Electricity (cont) mains electricity current, charge and power national grid electrostatics electric fields
Key skills to apply in assessment or exam	 Use scientific vocabulary, terminology and definitions. Use prefixes and powers of ten for orders of magnitude (eg tera, giga, mega, kilo, centi, milli, micro and nano). 	 Use scientific vocabulary, terminology and definitions. Explain every day and technological applications of science; evaluate associated personal, social, economic and 	 Use scientific vocabulary, terminology and definitions. Use a variety of models such as representational, spatial, descriptive, computational and mathematical 	 Use scientific vocabulary, terminology and definitions. Use a variety of models such as representational, spatial, descriptive, computational and mathematical 	 Use scientific vocabulary, terminology and definitions. Evaluate risks both in practical science and the wider societal context, including perception of risk in relation to data 	 Use scientific vocabulary, terminology and definitions.

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	 Use a variety of models such as representational, spatial, descriptive, computational and mathematical to solve problems, make predictions and to develop scientific explanations and understanding of familiar and unfamiliar facts. 	 environmental implications; and make decisions based on the evaluation of evidence and arguments. Use a variety of models such as representational, spatial, descriptive, computational and mathematical to solve problems, make predictions and to develop scientific explanations and understanding of familiar and unfamiliar facts. 	to solve problems, make predictions and to develop scientific explanations and understanding of familiar and unfamiliar facts. Interpreting observations and other data (presented in verbal, diagrammatic, graphical, symbolic or numerical form), including identifying patterns and trends, making inferences and drawing conclusions.	to solve problems, make predictions and to develop scientific explanations and understanding of familiar and unfamiliar facts. Explain every day and technological applications of science; evaluate associated personal, social, economic and environmental implications; and make decisions based on the evaluation of evidence and arguments.	and consequences. • Explain every day and technological applications of science; evaluate associated personal, social, economic and environmental implications; and make decisions based on the evaluation of evidence and arguments.	
Title of Knowledge Organiser	• Energy	• Energy	EnergyParticle model	Particle modelElectricity	• Electricity	• Electricity