High Tunstall College of Science Curriculum Intent

Subject: Separate Physics Year: 11

Thread 3—Electricity



	Physics Thread 3– Electricity	– Electricity Progress		
Торіс	Key ideas	R	Α	G
	I can explain how to find the resistance in a wire			
	I can explain the difference between series and parallel circuits			
	I can describe the PD current graphs of different components			
	l can explain if different components follow Ohms Law			
	I can explain the uses of thermistors and LDRS			
	I can calculate power in terms of energy transferred			
	I can calculate power in electrical appliances			

Lesson	Learning Focus	Assessment	Key Words
1	RPA resistance	Students will complete the RPA and make conclusions from this	Resistance, current, poten- tial difference
2	What can I remember about series and par- allel circuits?	Differentiated pathways based on students confidence with this area	Series, parallel, resistance, current, potential difference
3	How do different electrical components be- have?	Conclusions made from experi- mental work and application to exam questions	Ohm's law, filament, diode, resistor
4	What are thermistors and LDR's?	Application task	Thermistor, LDE
5	How do we calculate power 1?	Completion of calculations	Work done, energy trans- ferred. Power, watts, joules per second
6	How do we calculate power 2?	Completion of calculations	Energy transferred, power, watts, resistance