DATE W/C	WEEK	Торіс	OAK ACADEMY LINKS TO USE					
			Lesson title	Combined science (FT)	Science	Physics	Core content	
07-Sep-20	2	P1 CONSERVATION AND DISSIPATION OF ENERGY	Energy review	Y	Y	Y	Correct misconceptions Recall definitions of key terms and use them correctly Apply understanding to exam style questions.	
14-Sep-20	3							
21-Sep-20	4	P4 ELECTRIC CIRCUITS	Static electricity			Y	Describe the production of static electricity and sparking by rubbing surfaces Describe evidence that charged objects ever forces of attraction or repulsion on one anothe whan not in conclusted for delectrons between objects can explain static electricity Draw circuits, using correct common circuit symbols	
			Drawing electrical circuits	Y	Y	Y	Describe electrical current	
28-Sep-20	5		Current and charge	Y	Y	Y	•Use the equation Q=It to calculate any value given the other two, changing units where necessary	
			Potential difference	Y	Y	Y	Describe what is meant by potential difference and resistance in circuits Recall and apply the equation linking charge, energy and potential difference	
05-Oct-20	6		Electrical Resistance	Y	Y	Y	Describe what happens to current when potential difference and resistance are varied Use an equation linking potential difference, current and resistance to calculate any value g the other two	
			Series circuits	Y	Y	Y	Predict current and pd in series circuits Describe the effect of adding resistors in series circuits Use Ohm's Law to calculate current, resistance or pd	
12-Oct-20	7		Parallel circuits	Y	Y	Y	Describe and apply the rules for pd and current in a parallel circuit Describe the effect of adding resistors in parallel Use Ohm's law to find pd, resistance or current in parallel circuits.	
			Series and parallel Circuits	v			Compare series and parallel circuits. Use Ohm's Law to find pd, current and resistance in circuits.	
19-Oct-20	8		Properties of Resistors	Y V	Y	T V	Make and record measurements to find the pattern of resistance in a fixed resistor PIot a graph of the data obtained Describe and explain the relationship between current, pd and resistance in a fixed resistor	
				1		1	Make and record measurements to find the pattern of resistance in a filament lamp PElot a graph of the data obtained •Calculate resistance for the values collected	
		HALF TE	Filament lamps RM	Y	Y	Y	Describe and explain the relationship between current, pd and resistance in a filament lamp	
02-Nov-20	9	P4 ELECTRIC CIRCUITS	1 (17)				Recognise and draw the symbol for a diode Process secondary data and plot a graph of the data	
			<u>Diodes</u>	Y	Y	Y	Describe and explain the pattern of current and pd with a diode identify variables to change, measure and control to test a hypothesis	
			Light dependent Resistors	Y	Y	Y	Collect and display results appropriately Explain how resistance changes with light levels in an LDR Explain how LDRs can be used to switch lights on when it gets dark	
09-Nov-20	10		Thermistors	Y	Y	Y	Oraw a circuit diagram to illustrate how to test the resistance of a thermistor Process secondary data appropriately and use it to inform a conclusion Explain the use of thermistors as a thermostat	
			Review of electrical circuits	Y	Y	Y	Tackle misconceptions for electrical circuits Recall key definitions and equations. Apply understanding to exam style questions.	
16-Nov-20	11	P5 ELECTRICITY IN THE HOME	Domestic electricity				Describe the features of UK mains supply and three core cable explain the use of live, neutral and earth wires explain the difference between direct and alternating potential difference	
			Electrical power - part 1	1	T	1	Recall and apply the equation linking current, potential difference and power Ohange units and the subject of equations where necessary Recall and apply the equation to calculate power, current or resistance	
23-Nov-20	12			Ŷ	Y	Y	Chance units and the subject of equations where necessary Recall and apply the equation linking energy, power and time Recall and apply the equation linking charge, energy and potential difference	
30-Nov-20	13		Electrical power - part 2	Y	Y	Y	•HT Be able to solve problems using multi-step or multiple equations.	
07-Dec-20	14		Multi-Step calculations		Y	Y	Tackle misconceptions for domestic electricity Recall key information and definitions	
			Domestic electricity review	Y	Y	Y	Apply understanding to exam style questions. Study the work of Benjamin Franklin and how it relates to electricity.	
14-Dec-20	15		Case study: Benjamin Franklin	Y (if wanted - makes	r Y (if wanted - makes	Y		
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