Unit	Section	Content
ENERGY	6.1.1 Energy Changes in a system,	identifying the energy changes in systems
	and the ways energy us stored	-Calculate, using equations, the amount of energy associated
	before and after such changes	with a moving object, a stretched spring and an object raised
		above ground level.
		-Calculate, using an equation, the amount of energy stored in
		or released from a system as its temperature changes
		-Calculate Power
	Required Practical 14: an	linking the decrease of one energy store (or work done) to
	investigation to determine	the increase in temperature and subsequent increase in
	the specific heat capacity of one	thermal energy stored
	or more materials.	
	6.1.3 National and global	describe renewable and non-renewable energy resource
	energy resources	-compare advantages and disadvantages of different
		energy resources
ELECTRICITY	<b>6.2.1</b> Current, potential difference	-circuit diagram symbols
	and resistance	-definition and units of electrical current and charge
		-calculating charge flow using an equations
		-definition and units of potential difference
		-definition and units of resistance
		-relationship between current, potential difference and resistance
		-calculate current, potential difference or resistance using an
		equation
		-IV graphs of resistor at constant temp, filament lamp, diode
		-applications of LDRs and thermistors
	Required Practical	-placing ammeter and voltmeter in the correct place in a circuit to
	<b>16:</b> construct appropriate circuits	measure the current through and potential difference across a
	to investigate the I–V	component Distring grande
	characteristics of circuit elements,	-Plotting graphs
	nc. a marient ramp, diode and	-Describing and explaining patterns shown in graphed data
	6 2 1 Changes of state and	Define and calculate the density of a substance or object
PARTICLE MODEL	the particle model	-recognise/draw simple diagrams to model the difference between
		solids liquids and gases
		-explain the differences in density between the different states of
		matter in terms of the arrangement of atoms or molecules
		-describe how when substances change state mass is conserved
		-Describe changes of state as physical changes
ATOMIC STRUCTURE AND	6.4.2 Atoms and nuclear radiation	-radioactive decay, types of nuclear radiation and their properties
		-definition and units of activity and count rate
		-nuclear equations
		-half lives
		-contamination and irradiation