

Chapter 20 – Electrical Circuits

Learning Grid

Electrical Circuits	Questions	Answers
	Define potential difference and give the definition of a volt.	
	Distinguish between electromotive force and voltage.	
	Define current and state its unit.	
	Define resistance and state Ohm's law.	
	Distinguish between an ohmic and a non-ohmic conductor.	
	Distinguish between series and parallel circuits. Explain how current flow differs in each.	

Electrical Circuits	Questions	Answers
	Using an appropriate diagram, derive an expression for the effective resistance R_T of two resistors R_1 and R_2 in series.	
	Using an appropriate diagram, derive an expression for the effective resistance R_T of two resistors R_1 and R_2 in parallel.	
	Define resistivity and state the three factors that affect it.	