GES IAS PHYSICS Term 2A (Jan – Feb, 2020-20)

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| TOPIC: Electricity |

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| Theme: Applications of Electricity | Level: AS Physics |
| Objectives: To develop an awareness of electricity and its applications |

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| Focussing Statements | Key Words  |
| 1. **What is electricity?**
2. State current is the rate of flow of charge
3. Determine the energy carried by the charge
4. Define EMF and PD
5. **What is Ohms Law?**
6. State ohms’ law
7. Use graphical analysis to find the gradient
8. **What is resistivity?**
9. Explain what resistivity is
10. Use the equation for resistivity
11. **What is internal resistance?**
12. Explain what is meant by the internal resistance of a battery
13. Derive and use the equation for internal resistance
14. Plot a graph to determine the internal resistance
15. Answer questions about internal resistance
16. **How can we find the current and voltage in a circuit?**
17. Use knowledge of series and parallel circuits to find the current and voltage at all points in a circuit
 | Charge, current, voltage, emf, pd, resistance,ohms law, power, resistivity, internal resistance currentvoltage internal resistanceenergypower | The EMF is defined as …The PD is defined as …The resistance of a wire depends on …Internal resistance is …Electricity is used for …Power affects the current by….Resistance can be utilised by…The relationship the graph demonstrates is….The circuit is showing…..The components position affects… |

**Text Book: departmental textbooks and worksheets, chrome books**