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  current  voltage  internal resistance  energy  power | | 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**