PHYS GES IA2 PHYSICS Term 2A (January - March, 2020-20)

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| TOPIC: Thermal Physics and Simple Harmonic Motion |

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| Theme: Thermal Physics and Simple Harmonic Motion | Level: A2 Physics |
| Objectives: To develop an awareness of thermal physics and simple harmonic motion | |

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| Focussing Statements | | Key Words | |
| 1. **What is specific heat capacity?** 2. Define specific heat capacity 3. Determine the specific heat capacity of a solid and liquid 4. **What is specific latent heat?** 5. Define Specific Latent Heat 6. Determine the specific latent heat of a solid and liquid 7. **What is Absolute Zero?** 8. Appreciation of the lowest temperature possible 9. **What is pressure?** 10. Use Boyles Law to determine the volume of a compressed gas 11. Calculate the root mean square speed of a gas 12. Calculate the temperature of a gas 13. **What is Simple Harmonic Motion?** 14. Define simple harmonic motion 15. Explain what the amplitude of oscillation is 16. Calculate the amplitude, velocity and acceleration on an object 17. Calculate the energy of an object 18. Define resonance 19. Explain the uses of damping | Specific latent heat  specific latent heat  absolute zero  pressure  boyles law  pressure  volume  temperature  energy  root mean square  simple harmonic motion  position  velocity  acceleration  energy  resonance  damping | | Determine the specific latent heat of….  Absolute zero….  Pressure can be used…..  Temperature affects gases by causing…  The oscillations are resulting in…  The energy in an object is….  The resonance is…  Damping can result in….. | |

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