

## Exam 4 Topics

1. Ideal Gas Law
2. Intensity level
3. Ideal gas law, calculation of a buoyant force from a volume
4. Calorimetry
5. Wave speed
6. Resonance of pipe
7. Linear thermal expansion
8. Power through conduction
9. Frequency of simple harmonic oscillator
10. Resonance of pipe
11. Doppler shift
12. Interference of sound waves (2-D)
13. Frequency, speed, wavelength
  
14. Intensity, intensity level, power
15. Sound speed, resonance
16. Additions of intensity levels
17. Heat transfer
18. Intensity, intensity level, power
19. Intensity, intensity level, power
20. Engines, 2<sup>nd</sup> law of thermodynamics
21. Molecular theory of gases, temperature
22. Beats
23. Doppler shift
24. Resonance, wave speed
25. First law of thermodynamics