

**REVIEW: WAVES & SOUND**

## MAJOR CONCEPTS

- wave properties (wavelength, frequency, amplitude, speed, in phase/out of phase)
- speed of waves (t)
  - $v = f\lambda$ ;  $v = \Delta d / \Delta t$
  - speed of sound
  - echoes
  - mach number
- Sound Intensity
- Doppler effect
- Interference – constructive & destructive
- natural frequency & resonance
- standing waves – in strings, air columns open and both ends and air columns closed at one end
- resonance problems (instruments)

## PRACTICE QUESTIONS

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#1,3,5,6,8,9,10,11,12,14-18,20,22,23

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#1,4,5-8,10-15, 18-22, 37-39, 41-44, 46,47,50,52,53,55,57,58,81,83

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