

Mr. Schneider presents...

# Sound Wave Topics

- Wave description parameters ( $\lambda, a, v, T, f$ )
- Superposition
- Reflection
- Constructive & destructive interference
- Standing waves (e.g., vibrating strings & resonating tubes)
- Resonance
- Harmonics
- Pitch
- Transverse vs. longitudinal waves
- Sound compression & rarefaction
- Doppler shift
- Sonic booms
- $f = \frac{1}{T}$
- $v = \lambda f$
- $v_T = v_{0^\circ C} + kT$