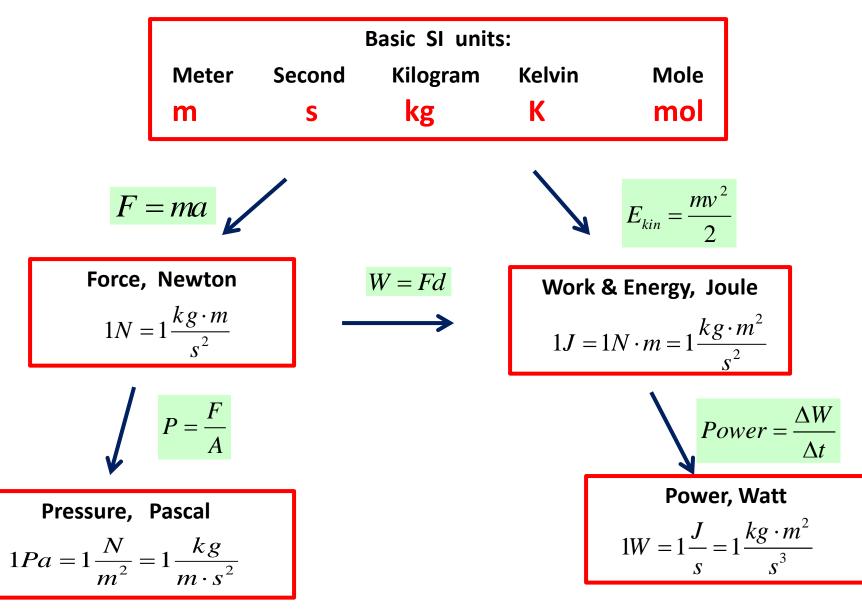
International System of Units (SI)



Homework

Use dimensional analysis to find the speed of sound in air at room temperature. It may depend on the following parameters (pick three that look relevant):

- Universal gas constant: R=8.1 J/(mol K);
- Absolute temperature: T=300 K
- Molar mass or air: m=29 g/mol = 0.029 kg/mol
- Gravitational constant: $G \approx 6.7 \cdot 10^{-11} \text{ m}^3/(\text{s}^2 \cdot \text{kg})$

Remember that Joule J= kg \cdot m²/s²; 'mol' is mole, and 'K' is degree Kelvin.