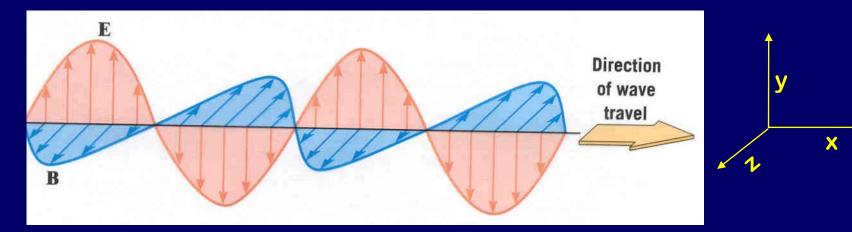
Electromagnetic Waves



- Transverse (vs. sound waves longitudinal)
- E perpendicular to B and always in phase
 E & B increase and decrease at same times
- Can travel in empty space (sound waves can't!)
- Speed of light in vacuum: v = c = 3 x 10⁸ m/s (186,000 miles/second!)
- Frequency: $f = v/\lambda = c/\lambda$ Period: T = 1/f