#14 Seeing Light

Name: Date:

Light travels as a _____ wave and also as a _____ wave.

Electromagnetic waves can travel through the vacuum of space without needing a _____.

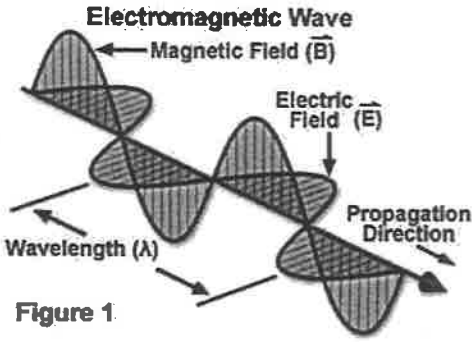


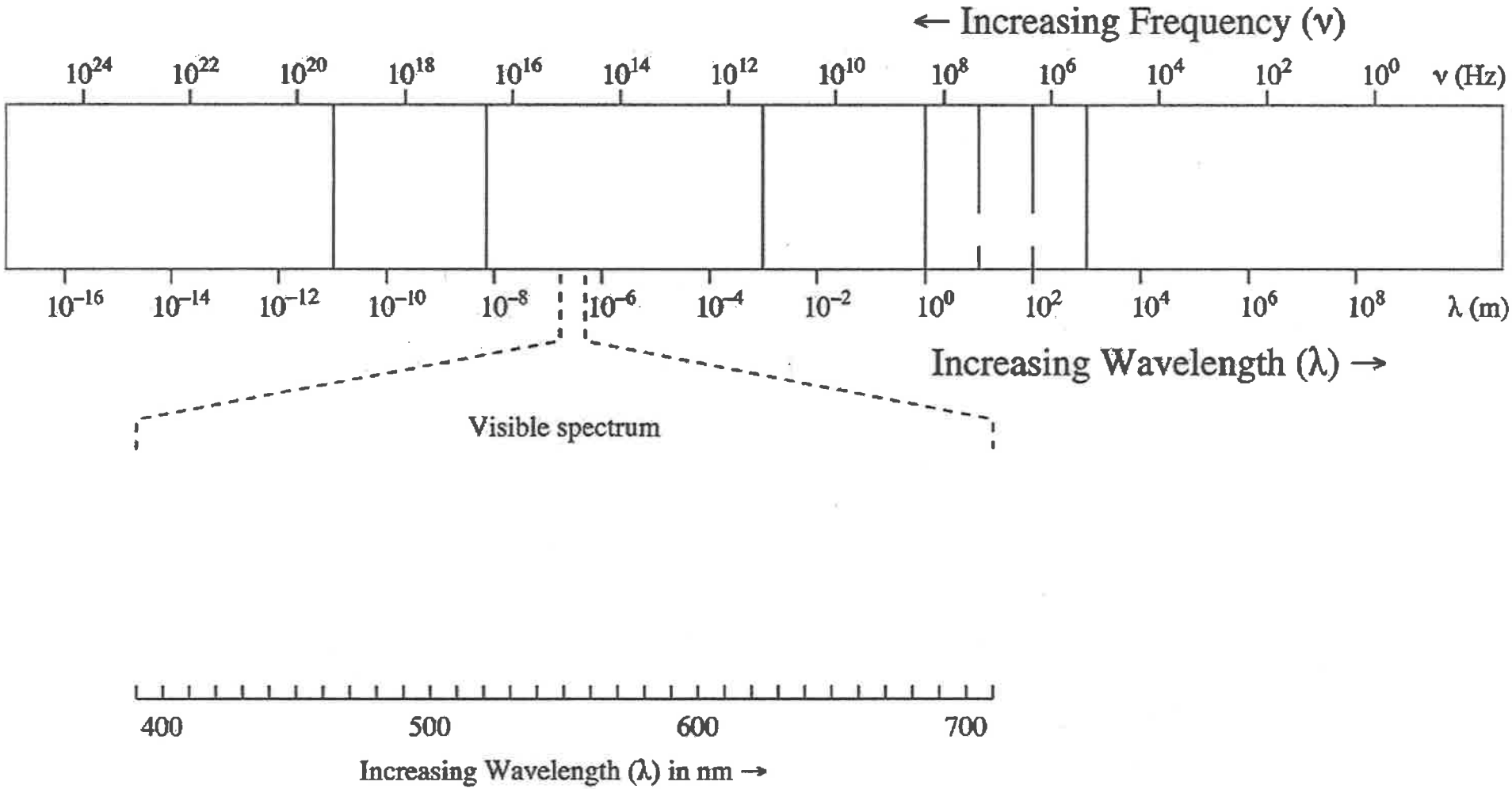
Figure 1

Reflection-

Draw an example of light reflecting off of a surface.

Light Scattering-

Why is the sunset red?


← Increasing Frequency (ν)
10^{24} 10^{22} 10^{20} 10^{18} 10^{16} 10^{14} 10^{12} 10^{10} 10^{8} 10^{6} 10^{4} 10^{2} 10^{0} ν (Hz)
10^{-16} 10^{-14} 10^{-12} 10^{-10} 10^{-8} 10^{-6} 10^{-4} 10^{-2} 10^{0} 10^{2} 10^{4} 10^{6} 10^{8} λ (m)
Increasing Wavelength (λ) →
Visible spectrum
400 500 600 700
Increasing Wavelength (λ) in nm →