**Noteguide for Electromagnetic Spectrum - Videos 27A Name**



**Reviewing Waves:**

v = fλ

v = c = speed of light = 3.00 x 108 m/s

f = frequency (Hz)

λ = wavelength (m) 1 nm = 1 x 10-9 m

Example: What is the wavelength of a 91.1 MHz radio wave?

Whiteboards:

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| 1. What is the frequency of a 12.2 cm microwave? (ovens use this) (2.46 x 109 Hz) |
| 2. What is the frequency of a 600. nm light wave? (5.00 x 1014 Hz) |