

First Name: _____

Last Name: _____

L02 - formative Quiz - EMR

Q1: Green light has a wavelength of 565nm. What is the frequency of this light? (2 marks)

$$c = f\lambda$$

$$(3.0 \times 10^8 \text{ m/s}) = f(565 \times 10^{-9} \text{ m})$$

$$f = 5.3097 \times 10^{14} \text{ Hz}$$

Use the following information to answer Q2:

Types of EMR	
1 - Gamma	2 - Microwave
3 - Visible	4 - X-Ray

Q2: The order of EMR, from lowest frequency to highest frequency, is:

Radiowaves, 1/2, Infrared, 3/3, Ultraviolet, 4/4, 6/1. (1 mark)

(Record your four-digit answer in the numerical response boxes below.)

2	3	4	1
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MARKING:

- Beginning 0
- Progressing 1
- Competent 2
- Exemplary 3

KEY