
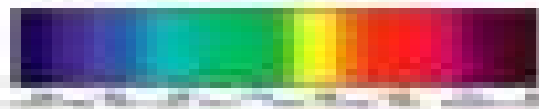


## Lecture 8 Light - Energy Content

**Big picture:** how do light properties (frequency, wavelength, energy) affect the biological responses of organisms and the environment?

<p><b>Electromagnetic Spectrum:</b> How do we define the electromagnetic spectrum?</p>  <p>Electromagnetic spectrum with 7 main categories:</p>	<p><b>Visible Light:</b> How do we define visible light? (light that we can see)</p> <p>400-700 nm</p> <p>How do we define color? (wavelength of light)</p> 
<p><b>Wavelength:</b> What is wavelength? How do we measure wavelength? (distance between two peaks)</p>	<p><b>Frequency:</b> What is frequency? How do we measure frequency? (number of waves per second)</p>
<p><b>Light intensity:</b> How do we measure light intensity? Light intensity is the amount of light energy that passes through a given area in a given time.</p>	<p><b>Amplitude:</b> What is amplitude? How do we measure amplitude? (height of the wave)</p>
<p><b>Wavelength, frequency, and energy:</b> What is wavelength? (distance between two peaks) What is frequency? (number of waves per second) What is energy? (ability to do work)</p>	<p><b>Energy:</b> How do we measure energy? Energy is the ability to do work. Energy is measured in Joules (J). Energy is proportional to the square of the frequency (E = hf). Energy is inversely proportional to the wavelength (E = hc/λ).</p>

# Ch Light Study Guide Key

**Marcel A. Müller**



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