

in light different wavelengths means different colors. Also different amplitudes means different brightness.

frequency depends on wavelength, bc shorter wavelength means faster.

speed of light = $c = 3.0 \cdot 10^8$ m/s

practice questions:

for light sources with equal intensities, which one has the highest frequency?

- A. red light
- B. violet light
- C. X-Rays
- D. radio waves

$$E = h\nu$$

↑

J·s

Einstein's new model

- e^- is excited (ejected) all at once \rightarrow from one photon
- if photon has too little E , nothing happens
- + if much E is ok

