

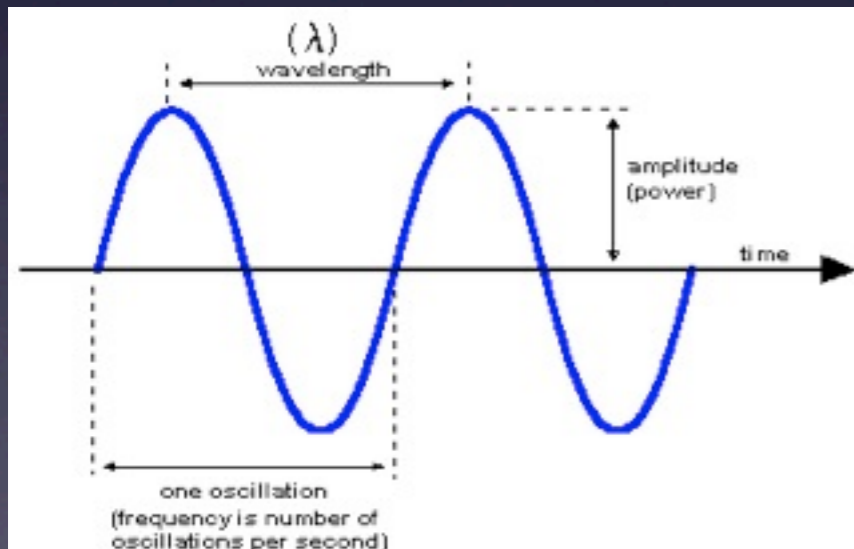
Electromagnetic Force: Photons



Ask Mish

Photon

energy = electromagnetic energy
velocity = 3×10^8 m/s
mass = 0
created by emission
destroyed by absorption
can collide with electrons and other particles



$$E = h\nu$$

$$E = \frac{hc}{\lambda}$$

- Photons are produced when 2 charged particles interact, also when -e change the levels of energy by moving to a different orbital.
- Photons = quanta of energy (E)
- Photon: no mass, no charge, speed of light.
- This electromagnetic radiation has different frequency and length.
- Length x frequency = c
c = speed of light 300000 km/s.
- Length: btw 2 peaks
- Frequency: cycles completed in 1 second.
- Energy of photon: $E = h \times f$,
h = Planck constant and
f = frequency of wave