Proportionality

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

Energy is <u>inversely</u> proportional to wavelength

Energy is <u>directly</u> proportional to frequency

Frequency is…. High or low
Wavelength is…. Long or short
Energy is…. High or low

Photons with HIGH frequencies have <u>short</u> wavelengths and <u>high</u> energies

Photons with LONG wavelengths have <u>low</u> frequencies and <u>low</u> energies