

Periods (Energy Levels)

n = 1

n = 2

n = 3

n = 4

n = 5

n = 6

n = 7

ROYGBIV

n = 6

n = 7

An e^- will drop back down to its normal ground state as energy is released as light.

Long Wavelength

Short Wavelength

Lowest Energy

Highest Energy

Low Frequency

High Frequency

ROYGBIV

As Wavelength goes $\uparrow$,
Frequency goes $\downarrow$.

As Frequency goes $\uparrow$,
Energy goes $\uparrow$.