

Draw a wave and label: crest, trough, amplitude, node(if standing wave).

Describe frequency.

Draw a picture of constructive and destructive interference.

Calculate the frequency of UV-A, UV-B and UV-C light.

UVA 400 nm - 320 nm

UVB 320 nm - 290 nm

UVC 290 nm - 100 nm

Calculate the distance between Chicago and Springfield if a pulse of light takes 9.39×10^{-4} s to travel from one to the other and back.