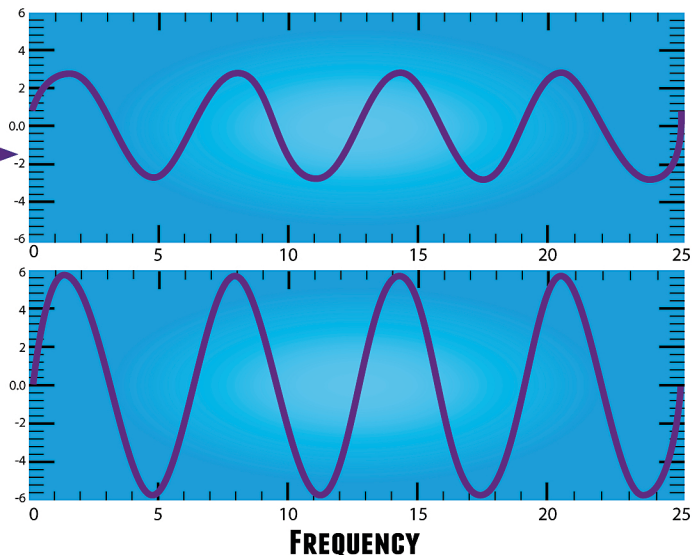
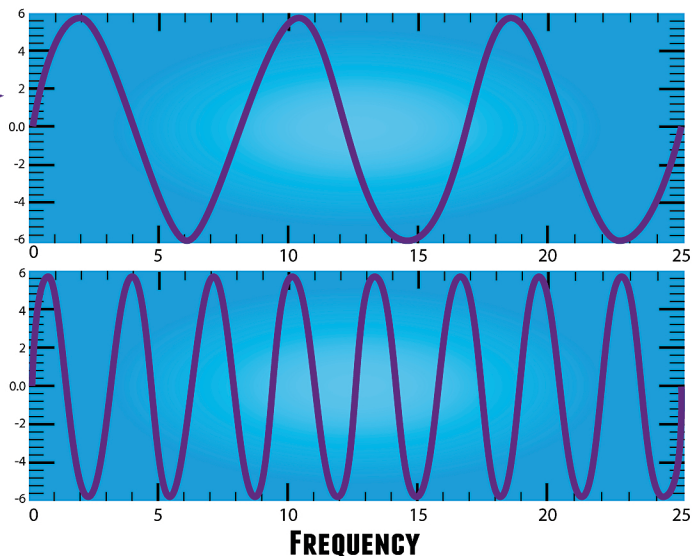


Another important property of a lightwave is its **frequency**. The frequency of a lightwave is the number of waves that pass by a certain distance in one second. If more waves pass by in a given period of time, the light has more energy. Frequency is also related to wavelength. Short waves have high frequencies, and long waves have low frequency.

The waves in this chart have the same frequency.



The waves in this chart have different frequencies.



Some animals see parts of the spectrum that are invisible to people. People cannot detect high frequency ultraviolet light, but bees can see it. Many flowers that bees pollinate have patterns visible only in ultraviolet light. The photograph below shows how a flower appears to a bee.



How this flower looks to a human.

How this flower looks to a bee.