

Electromagnetic Spectrum

Radio waves						Gamma Rays

Most harmful: _____

Least Harmful: _____

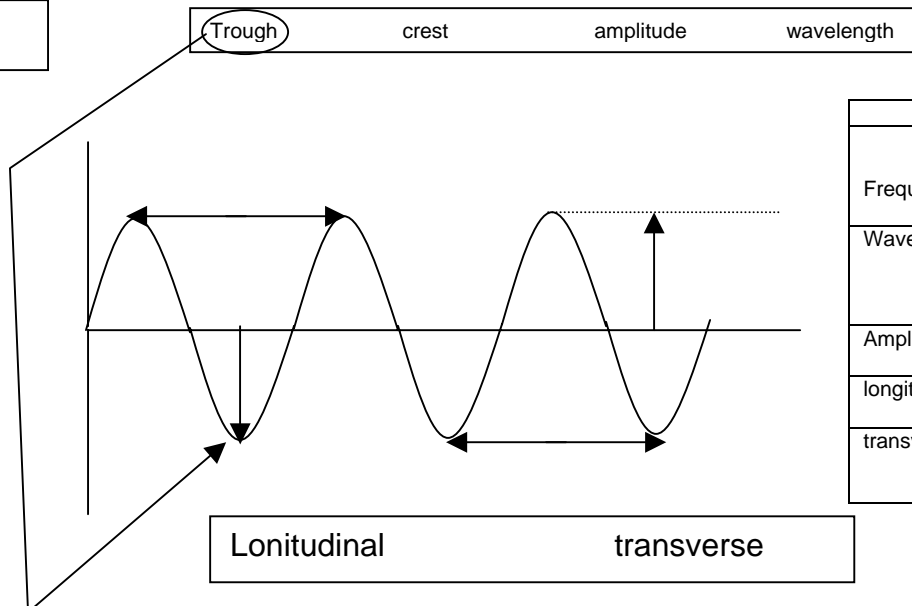
Others that can be harmful: _____

EM Waves used in medicine	
Type of Waves	How it is used
Gamma	
	Used to treat muscular problems

EM Waves used in communications	
Type of Waves	How it is used
Radio waves	
	Satellite transmissions. It easily passes through the earth's atmosphere

EM Waves used in security	
Type of Waves	How it is used
Ultra Violet	
	Security systems and night vision goggles

Waves

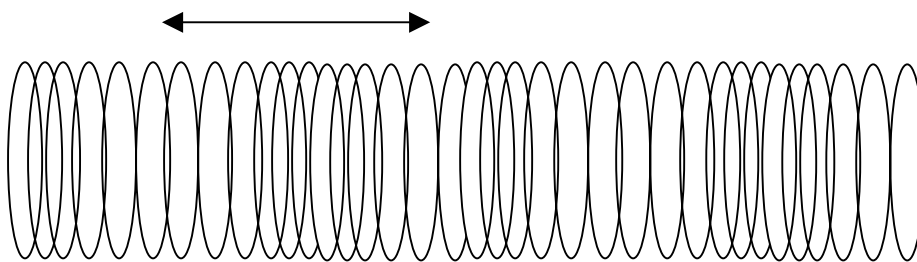


Important terms

Frequency		The distance between a trough and a trough or a peak and a peak
Wavelength		The distance from the middle to the peak or trough
Amplitude		Have vibrations along the wave
longitudinal		Have vibrations 90° to the wave
transverse		The number of cycles in one second

Lonitudinal

transverse

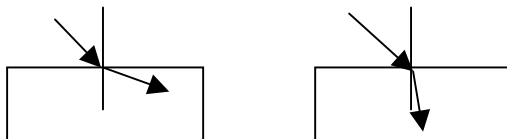


Compression

rarefaction

wavelength

Light



All waves carry energy. That's why some waves can harm us. The more waves we absorb, the more energy that can damage or hurt us!!