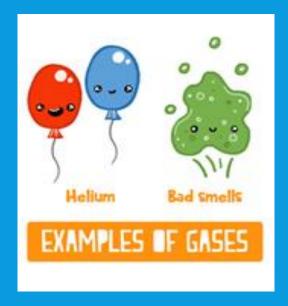
FLUIDS

• A fluid is any substance that has flow or spread. If it is poured into a container, it will take the shape of the container.





Sand and gravel are not fluids.

FLUIDS FALL INTO 2 CATEGORIES

• In a compressible fluid, the volume can change. Gases are compressible fluids.

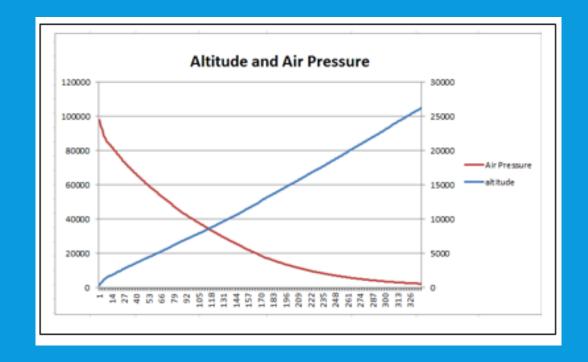
• In an incompressible fluid, the volume does not change. Liquids are incompressible fluids.

PRESSURE

 The continuous physical force exerted on or against an object by something in contact with it.

 The change in pressure is exerted on a compressible fluid, the volume will......

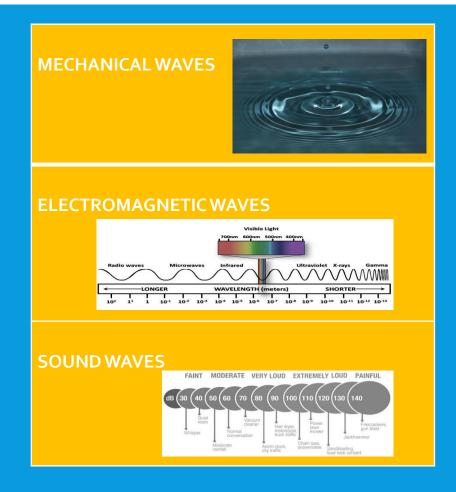
If the pressure	the volume
increases	decreases
If the pressure	the volume
decreases	increases



WAVES

A WAVE IS A DISTURBANCE THAT TRAVELS THROUGH A MEDIUM. A WAVE TRANSPORTS ENERGY; IT DOES NOT TRANSPORT MATTER

TYPES OF WAVES:



MECHANICAL WAVE

• A wave that requires a medium to travel through.

Seismic waves, sound waves, water waves

ELECTROMAGNETIC WAVE

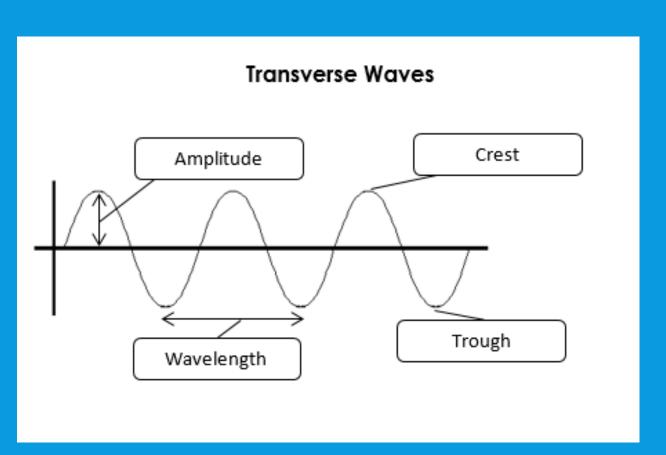
• A wave that can travel through a medium and a vacuum.

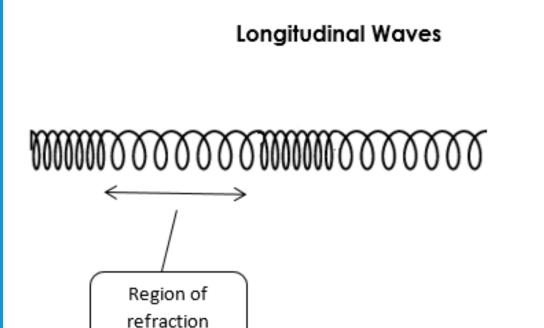
• Ex: radio waves, light waves, uv rays, x-rays, infrared rays, gamma rays

SOUND WAVE

• A wave that is produced through vibrations and is a mechanical wave.

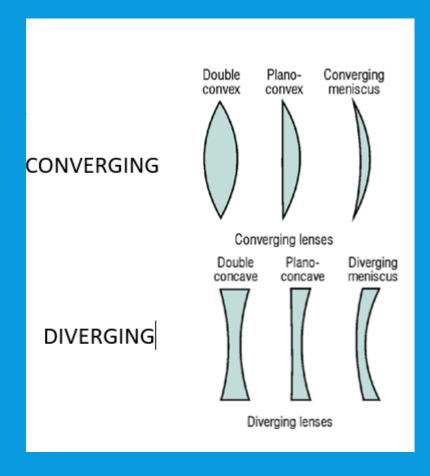
HOW WAVES PROPAGATE



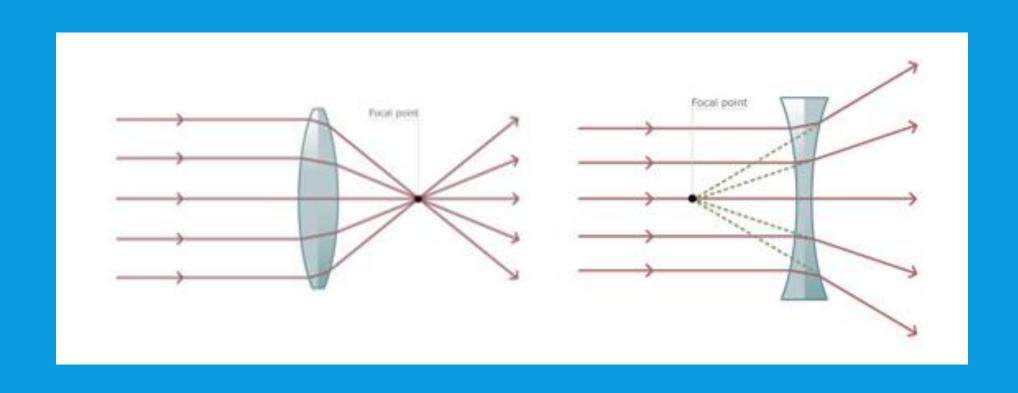


LENSES

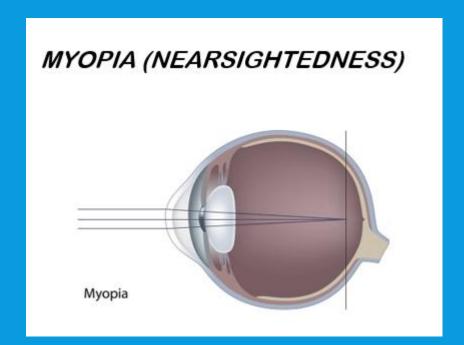
• 2 TYPES:



LENSES ARE USED TO REFRACT LIGHT AND CREATE A FOCAL POINT



MYOPIA



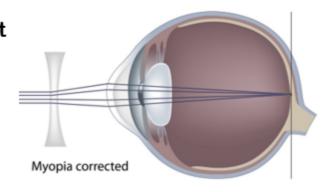
CONDITIONS OF THE EYE

Focal point is formed in front of retina

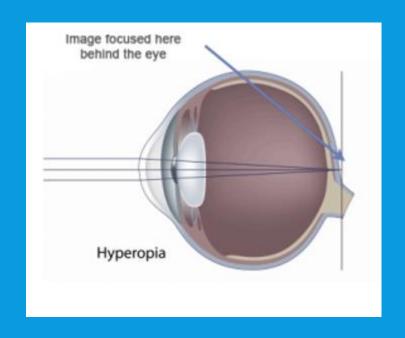
Cannot see objects at a distance.

CORRECTION:

Use a divergent lens to move the focal point back to the retina.



HYPEROPIA (FARSIGHTEDNESS)



Focal point is too far from the retina.

Cannot see objects close up.

CORRECTION:

Use a converging lens to move the focal point forward to the retina.

