Facts of Light

30 centimeters (11.8 inches) is the distance light travels in 1 nanosecond

A nanosecond is 1 billionth of a second

30 cm

Light travels at 299,792 km/s (186,000 miles per second) in a vacuum

Light travels slower through -
Air: 299702 km/s
Water: 225407.5 km/s
Glass: 197231.6 km/s
Diamond: 123881 km/s

Remarkable Fact:
Light changes speed through glass (slower in glass than in air) but speeds back up when it leaves the glass and enters the air again!

Visible light is just a small part of the electromagnetic spectrum There's much more than our eyes can see.

Light can bounce and bend -
Bounce = reflect
Bend = refract
Because of these properties we can make Microscopes, Telescopes, eye glasses Mirrors, periscopes, fiber optics and much more

Light can act like a particle or a wave.

A Light Year is a unit of distance measure in astronomy. A light year is 9,460,730,472,580.8 km (5,879,000,000,000 miles) long. This is how far light travels in 1 year.

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