

Properties of Light

1) Light travels in straight lines:



2) • Light travels VERY FAST – around 300,000 kilometres per second

1. the speed of light = 299,792,458 meters / second

[How to measure the speed of light - with CHOCOLATE! | Do Try This At Home | We The Curious - YouTube](#)

At this speed it can go around the world 7.5 times in one second.



still under 2

- Light travels much faster than sound. For example:

[Visualizing the Speed of Light and Speed of Sound \(youtube.com\)](https://www.youtube.com/watch?v=3pW3D8yYq54)

Thunder and lightning start at the same time, but we will see the lightning first.

- 2\ When a starting pistol is fired we see the smoke first and then hear the bang.

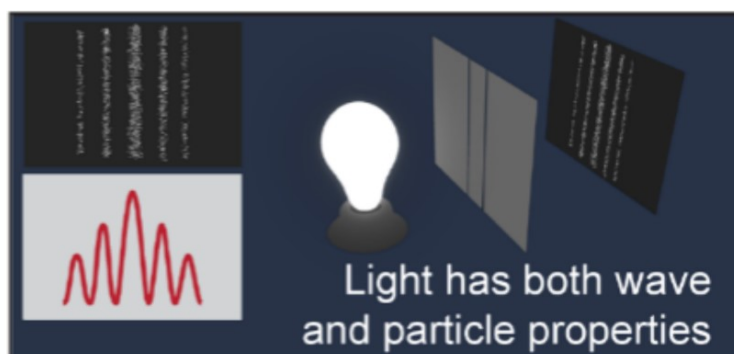


3. Light Has a Dual Nature

NOTES

<https://www.youtube.com/watch?v=J1yIApZtLos>

Light can behave
as waves, or as
particles called
photons.



<https://www.youtube.com/watch?v=IRBfpBPELmE&t=52s>

If you were in a *perfectly dark* room with your best friends, could you see them?

What if you stayed in there for a *really* long time?

