

Feb. 14

– 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.



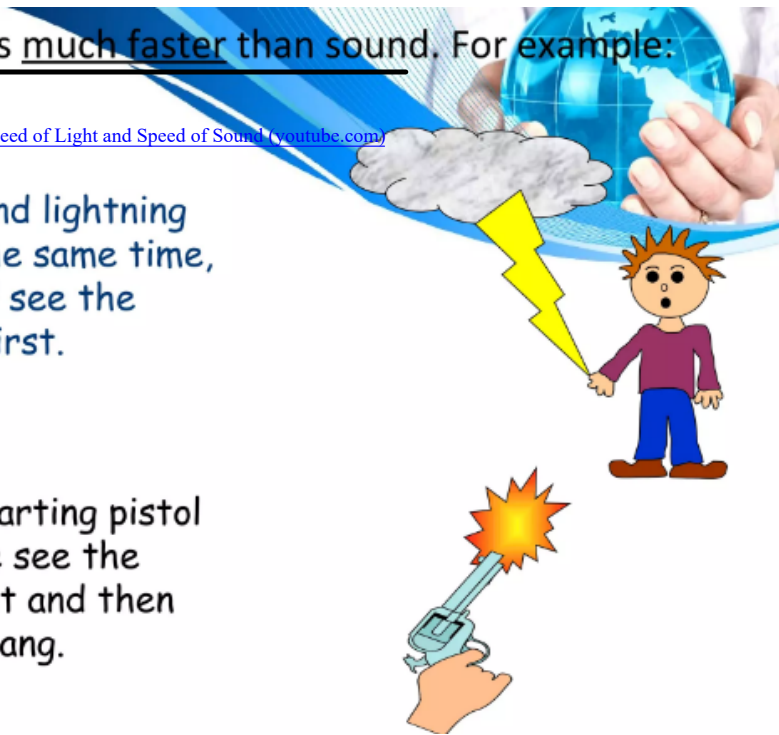
- Light travels much faster than sound. For example:

[Visualizing the Speed of Light and Speed of Sound \(youtube.com\)](#)



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

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



3. Light Has a Dual Nature

NOTES

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



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?

