## A Simple Slice of Science asks...

## Why is the sky blue?

1

## Why is the sky Blue?

To understand why
the sky is blue we need to
take a look at what light
is an how it works

2

## What is light?

Light is a type of energy called "Electromagnetic" (EM) radiation.
When we see light we see it in straight lines called rays but light actually travels in waves.





3

The Earth's
atmosphere is made up
of tiny molecules of gas
such as nitrogen and
oxygen as wel as
tiny bits of dust,
smoke, sea salt and
tiny droplets of
water.

When sunlight
travels through the
atmosphere some
of the light hits off the
molecules and tiny particles
and is scattered in all
directions.

Blue light gets scattered
a lot more easily than light
of longer wavelengths so
we see the sky
as blue.

The size of a wave of light determines it's colour. Light with longer wavelenghts appear as reds and oranges, shorter wavelength light appears blue or violet.

So then why is the sunset red?

The light from the setting Sun has to travel a greater distance to our eyes.

We see Sunlight as white light but it is