

Light and Waves Outline Notes

What is light?

Light is _____

Why is the sky blue? _____

What are Waves?

Waves are _____

Waves can be _____

Some waves _____

Electromagnetic waves _____

Important to understand! Waves transmit _____

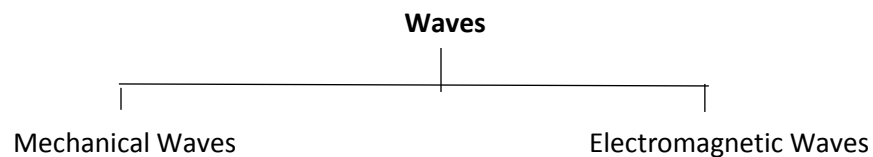
Waves do not move _____

Instead _____

If matter moves, _____

But _____

Types of Waves:



Mechanical Waves:

- These waves are classified _____
(solid, liquid or gas)

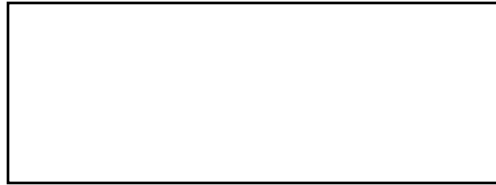
1. Longitudinal Waves –



Draw the wave in the box

2. Transverse Waves -

Draw the wave in the box



3. Surface Waves –



Parts of a Wave -

Amplitude:

The amplitude _____

Draw the amplitude here:

Wavelength:

The wavelength of a wave is the _____

Crest – _____

Trough – _____

Frequency - _____

Speed of waves:

Different types of waves _____

The speed of a wave can be calculated from its _____

Speed =

The Electromagnetic Spectrum (Electromagnetic Waves)

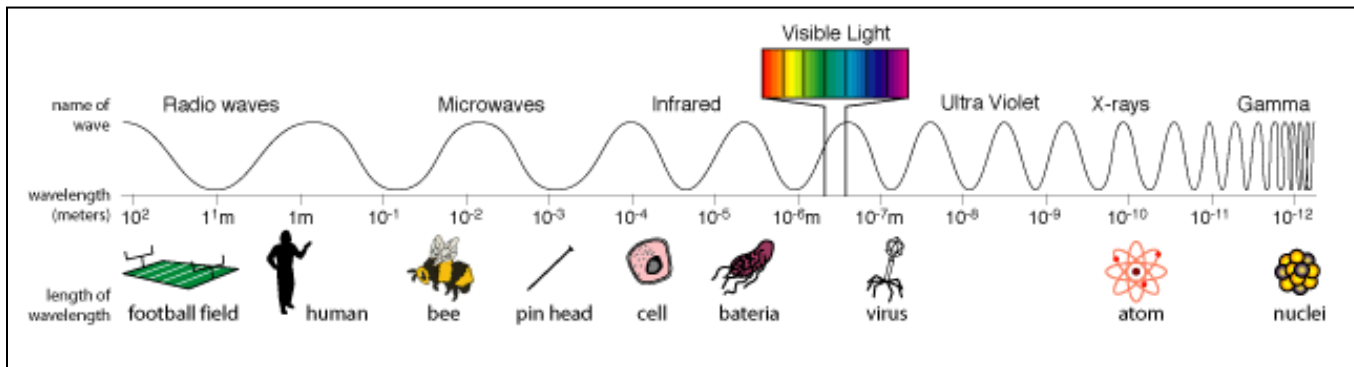
- Radiant energy from the Sun _____ require matter
- Light is a form of energy _____
- Electromagnetic waves _____

- EM Waves _____
- Can travel _____

Electromagnetic Wavelength:

All electromagnetic waves travel _____

EM Wavelengths:



Here we will stop with this outline and complete the graphic organizer on EM waves. This is the next page of these notes.