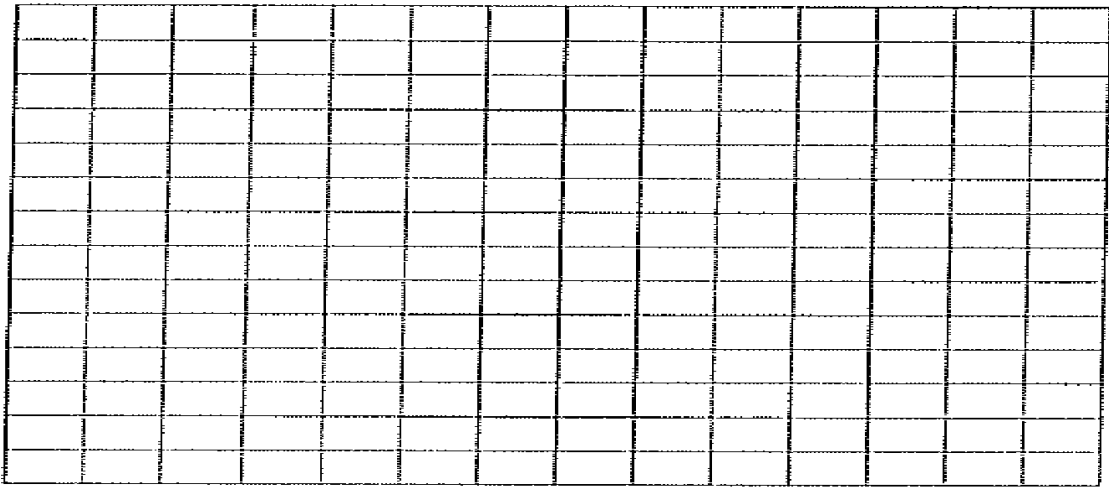


Light and the Electromagnetic Spectrum Homework

1. Draw a wave and label the following parts: crest, trough, amplitude, wavelength
2. Using the graph paper below, draw a wave with an amplitude of 5 units and a wavelength of 4 units (each box is one unit).



3. What is the Electromagnetic Spectrum?
4. Describe a use for each type of light wave.

5. Fill in the blanks below or circle the correct word using the information about the electromagnetic spectrum.

The longest wave in the electromagnetic spectrum is _____

Choose the correct answer below

Infrared waves are **shorter/longer** than x-rays. Gamma rays are **high/low** frequency waves because their wavelength is **short/long**.

The only part of the electromagnetic spectrum we can see is the _____ light.

Visible light is composed of the colours (name them in order _____) also known as ROYGBIV.

The colour with the **longest or shortest** wavelength is red.

The colour with the shortest wavelength is _____.