

# **The Electromagnetic Spectrum**

1. Define the Electromagnetic Spectrum
2. Make a table in your notes

Type of Radiation	Uses

Rank the types of radiation in terms of their frequency value, wavelength and amount of energy. Be able to tell which form of radiation has the higher or lower frequency, shorter or longer wavelength and higher or lower energy level.

## **White Light and Colour**

- White light is actually a combination of all the colours of visible light merged together in our eyes.
- We can separate white light into the various colours by using a prism. (rainbow)
- A prism will not separate a single colour into other colours (red in → red out)
- Each colour has its own wavelength and frequency
- Red has the longest wavelengths and Blue has the shortest wavelengths
- Compare Additive and Subtractive Colour Theory
  - o Which applies to Spotlights?
  - o Which applies to paints?
  - o What happens when the primary colours are mixed?
  - o What do you notice about the primary and secondary colours?