Wave Parameters & Behaviours

Describe a transverse wave. Give an example.

Describe a longitudinal wave. Give an example.

Give the definition of...

Frequency:

Period:

Wavelength:

What is diffraction?

All waves transfer...

What are the units of frequency, period, wavelength and speed?

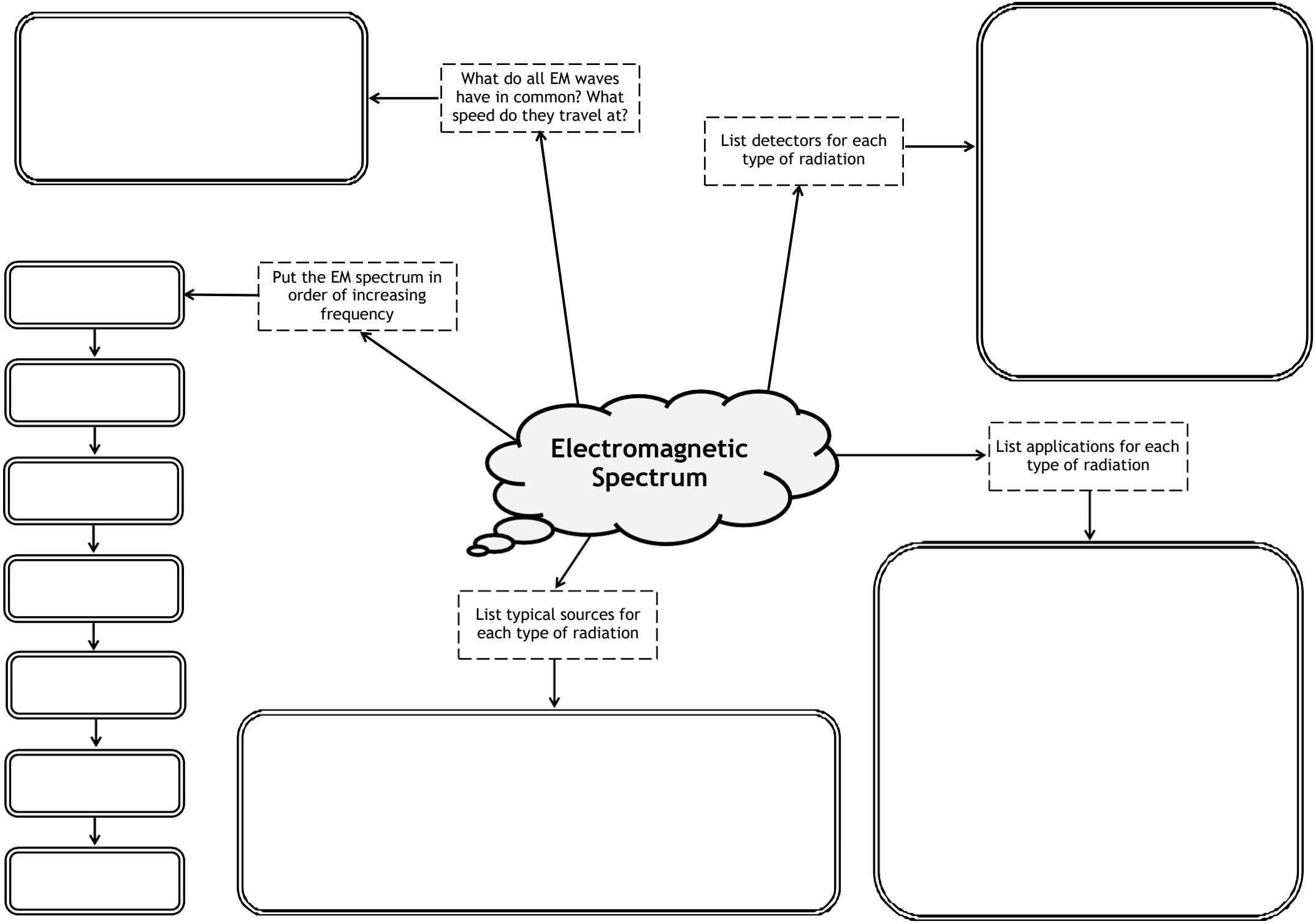
Complete the diagrams showing diffraction through a gap

Draw a diagram of a wave and label the; crest, trough, amplitude and wavelength

Complete the diagrams showing diffraction around an object

Relationships to calculate wave speed

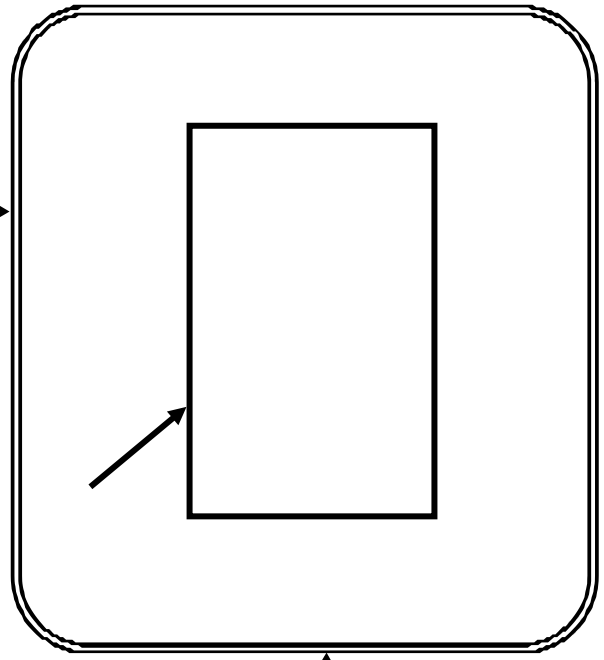
Relationships to calculate frequency and period


What do all EM waves have in common? What speed do they travel at?
List detectors for each type of radiation
Put the EM spectrum in order of increasing frequency
Electromagnetic Spectrum
List applications for each type of radiation
List typical sources for each type of radiation

Refraction of Light

Define refraction in terms of wave speed and wavelength

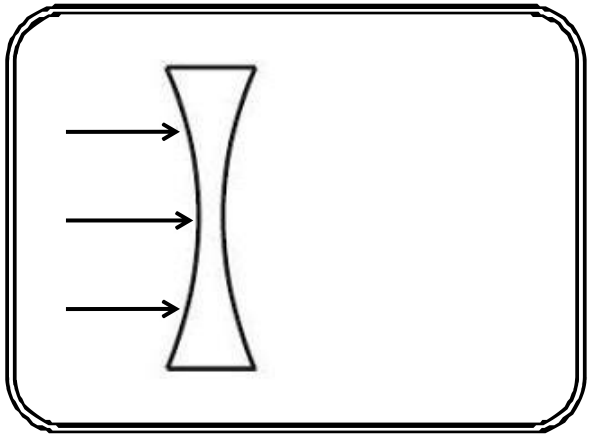
Complete the diagram showing the path of the ray of light



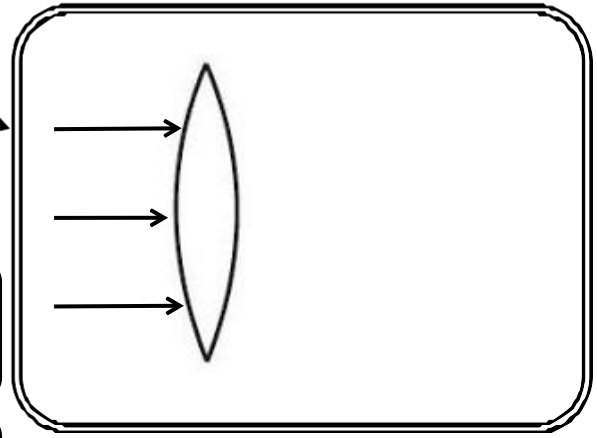
When does refraction occur?

Label the angles of incidence and refraction; and the normal

Name this lens. Complete the diagram



Name this lens. Complete the diagram



Define...

Angle of incidence:

Angle of refraction: