**CP4 Revision Mat:**

**Waves:**

Label amplitude and wavelength on the diagram



Define frequency and state the unit

……………………………………………………………………………………………………………………………………………………………………………………

Describe how longitudinal waves travel

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

State an example of a longitudinal wave

…………………………………………………………………………………………

Describe how transverse waves travel

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

State examples of transverse waves

…………………………………………………………………………………………

**Refraction:**

Define refraction

……………………………………………………………………………………………………………………………………………………………………………………

What is the normal?

……………………………………………………………………………………………………………………………………………………………………………………



*Complete the diagram to show what happens to light when it leaves the glass block*

Describe what happens when a light travels from air to glass

……………………………………………………………………………………………………………………………………………………………………………………

Describe what happens when a light travels from glass to air

……………………………………………………………………………………………………………………………………………………………………………………

**Calculating wave speeds**

What are the two equations that can be used to calculate wave speeds:

1)

2)

Draw triangles to help you rearrange to get the subject

A wave travels 10m in 2 seconds. Calculate the speed.

…………………………………………………………………………………………

A wave has a speed of 330m/s and a wavelength of 16m. Calculate the frequency.

…………………………………………………………………………………………

Describe how you could measure the speed of water waves between two buoys floating in the sea

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………