isaac You work it out.

Problem Solving I

WAVES

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Overview: Problem Solving Waves

1. Summary of key ideas
2. Have a go at the questions
3. Vote for the questions you would most like to discuss.

Waves questions
tinyurl.com/ipts25ps1

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Key formulae

Physics

Speed, $c = f\lambda$ (frequency × wavelength)

Speed, $v = \frac{d}{t}$ (distance / time)

Frequency, $f = \frac{1}{T}$ (T= time period)

Snell's Law of Refraction:

$$n_1 \sin\theta_1 = n_2 \sin\theta_2$$

Refractive index, $n_{medium} = \frac{c}{v_{medium}}$

Physics

Path difference, $d \sin\theta = m\lambda$ (constructive)

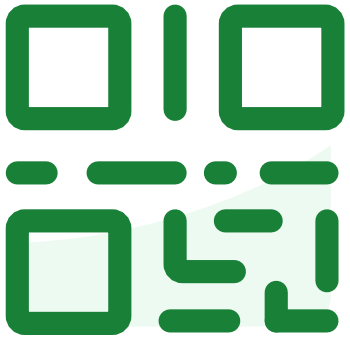
Optical path length, $n_{medium}x$

Doppler Shift, $\frac{\Delta f}{f} = \frac{\Delta v}{c}$

Maths

SOH|CAH|TOA (right-angled triangle)

$y = mx + c$ (Equation of a straight line)



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Which of the following questions would you most like to go through?