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| **What will we be learning?**  Waves - Triple | **Why this? Why now?**  Atomic structure - Physics (gamma radiation, medical physics)  Electricity 2 – Alternating currents  AQA Physics | **Key Words:**  Wavelength  Convex  Frequency  Concave  Wave speed  Diverging  Transverse  Real image  Longitudinal  Diminished  Amplitude Magnification  Crest  Virtual image  Trough  Principal focus  Reflection  Diverging  Refraction  Converging  Signal Generator  Oscilloscope Translucent  Vacuum  Opaque  Ultrasound  Inverted  Electromagnetic Spectrum  Total Internal Reflection |
| **What will we learn?**  v = f x l Wave speed = frequency x wavelength  v = s / t Speed = distance / time  T = 1 / f Period of wave = 1 / frequency (equation included on formulae sheet)  Magnification = image height / object height  Common Misconceptions: Amplitude is from crest to trough | |
| **What opportunities are there for wider study?**  Collins Revision guide relevant pages for this unit:  Triple: 30-41 Higher: 182-187 Foundation: 176-181  Communications Space Engineer Radio and television engineering Electronic Engineering  Naval Engineer Sonographer Cardiologist Cartographer Geophysicist  Sound Engineer  Opthalmologist Photographer | |
| **How will I be assessed?**  Deep Marking Task Title for this unit:  Describing how to measure the properties of a wave  Required Practical(s) for this unit:  Investigating plane waves in a ripple tank and waves in a solid.  Investigating infrared radiation  Investigate the reflection and Refraction of light | |