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| **What will we be learning?**  Waves | **Why this? Why now?**  Atomic structure - Physics (gamma radiation, medical physics)  Electricity 2 – Alternating currents  AQA Combined Science - Physics | **Key Words:**  Make sure you know the definitions of these keywords and use them in your answers.  Wavelength  Frequency  Wave speed  Transverse  Longitudinal  Amplitude  Crest  Trough  Reflection  Refraction  Signal Generator  Oscilloscope  Vacuum  Ultrasound  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)  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 Optician | |
| **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 | |