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| **What will we be learning?**Waves | **Why this? Why now?** Atomic structure - Physics (gamma radiation, medical physics)Electricity 2 – Alternating currentsAQA Combined Science - Physics | **Key Words:**Make sure you know the definitions of these keywords and use them in your answers.WavelengthFrequencyWave speedTransverseLongitudinalAmplitudeCrestTroughReflectionRefractionSignal GeneratorOscilloscopeVacuumUltrasoundElectromagnetic SpectrumTotal Internal Reflection |
| **What will we learn?**v = f x l Wave speed = frequency x wavelengthv = s / t Speed = distance / timeT = 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: 176-181Communications Space Engineer Radio and television engineering Electronic EngineeringNaval 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 waveRequired Practical(s) for this unit: Investigating plane waves in a ripple tank and waves in a solid. Investigating infrared radiation |