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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 currentsAQA Physics | **Key Words:**WavelengthConvex FrequencyConcaveWave speedDivergingTransverse Real imageLongitudinalDiminishedAmplitude MagnificationCrest Virtual imageTrough Principal focusReflection DivergingRefraction ConvergingSignal GeneratorOscilloscope TranslucentVacuum OpaqueUltrasound InvertedElectromagnetic 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)Magnification = image height / object heightCommon 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 GeophysicistSound Engineer Opthalmologist Photographer |
| **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 radiationInvestigate the reflection and Refraction of light |