LEARNING JOURNEY Physics



Waves and Optics

Year 12 Physics Spring Term (Teacher 2)

This topic builds on GCSE knowledge, starting with the features of waves, transverse/longitudinal waves, and optics. You will look at comparing points of a wave and using phase and phase difference. This will then be applied to stationary waves and to interference patterns. Geometric optics (refraction and reflection) will be studied in more mathematical detail than GCSE, and applications such as fibre optics will be explored. You will complete a suite a practicals looking at standing waves.



TUDOR HABITS AND VALUES: Show grit and courage as you attempt increasingly complex practicals and concepts, utilising all your problem solving skills.

VOCABULARY; frequency, time period, phase, coherent, node/antinode, superpose, refractive index, path difference, diffract