

SCIENCE

YEAR 9

Waves: The Science Behind Video Calls

Uncover the physics that makes modern communication possible. Students develop models of global telecommunication, examining how sound and light waves carry information across vast distances. From smartphones to fibre optics, this unit reveals the wave phenomena that connect our digital world.

Energy Conservation: Harnessing the Power of Waves

Ride the wave of energy transformations. Using examples like roller coasters and ocean swells, students explore how energy changes form but is never lost. They investigate the potential of wave energy for electricity generation, bridging theoretical concepts with real-world applications in sustainable energy production.

Non-Contact Forces and Electricity: Reimagining Transportation

Challenge students to become innovative engineers as they design futuristic modes of transport. By exploring non-contact forces and their potential applications, this unit encourages creative problem-solving in addressing current transportation challenges. Students envision and develop sustainable travel solutions, pushing the boundaries of what's possible in modern transit.