



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Physical Science
MEASUREMENT TOPIC: Compare the Movement of Energy Through Waves

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Compare and contrast the transfer of energy through electromagnetic and mechanical waves.• Obtain information in order to communicate how transmitting and receiving devices use principles of waves to transmit and capture energy using phenomena such as:<ul style="list-style-type: none">• Doppler effect• SONAR
2	The student can: <ul style="list-style-type: none">• Analyze the ways in which different media and their characteristics affect the speed of sound and light waves.• Use models to describe reflection, refraction, interference, and diffraction.• Describe the relationship amongst wavelength, frequency, amplitude, and energy in waves.

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With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: