



Oxford City Schools

Proficiency Scale

Are you looking for resources to help your child? [Click Here](#)

GRADE LEVEL: 8 COURSE NAME: SCIENCE
MEASUREMENT TOPIC: USE MODELS TO DESCRIBE WAVE BEHAVIOR

4	<ul style="list-style-type: none">• Research how the properties of analog and digital signals are encoded and decoded
3	<ul style="list-style-type: none">• Construct an argument from evidence that digital and analog signals encode and transmit information differently. (18)• Use models to compare and contrast light and sound wave behaviors, including• reflection, refraction, diffraction, and speed, as waves propagate and interact with matter. (17a)
2	<ul style="list-style-type: none">• Use models of mechanical and electromagnetic waves to qualitatively describe the relationships among wave properties, including amplitude, wavelength, and frequency. (17)• Identify the uses and function of electromagnetic waves and the function in our everyday lives.• Describe the ways that various media affect light and sound waves.• Describe the properties of a simple wave.

1

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

Key Vocabulary:

wave properties, sound waves, electromagnetic waves, visible light, photon, Angle of Reflection, Angle of Incidence, & wave speed via matter/mediums