

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
IPC/Unit 6 Energy and Waves	10-11	6th Six Weeks	5 weeks and 3 days
TEKS/Student Expectations		Examples/Specifications:	
<p>(5) Science concepts. The student knows the effects of waves on everyday life. The student is expected to:</p> <p>(A) demonstrate wave types and their characteristics through a variety of activities such as modeling with ropes and coils, activating tuning forks, and interpreting data on seismic waves;</p> <p>(B) demonstrate wave interactions including interference, polarization, reflection, refraction, and resonance within various materials;</p> <p>(C) identify uses of electromagnetic waves in various technological applications such as fiber optics, optical scanners, and microwaves; and</p> <p>(D) demonstrate the application of acoustic principles such as in echolocation, musical instruments, noise pollution, and sonograms.</p>		<p>5 A - use a variety of materials to demonstrate how waves operate</p> <p>5 B – discuss how waves interact with each other</p> <p>5 C – discuss and identify different types of waves and how they are recognized</p> <p>5 D – discuss the application of acoustic principles.</p>	
Language of Instruction:		Instructional Resources/Textbook Correlations:	
Waves, radio waves, standing waves, compression waves, transverse waves, sound waves, electromagnetic waves and spectrum, light and color, rods and cones, mirrors and lenses		Textbook pg 322-450	

	Weblinks/Other Resources:
Evaluation/External Assessment/Local Assessment:	Best Instruction Timeline:
Teacher/ Testbank Tests Labs and Quizzes	1 day nature of waves 2 days wave properties 3 days behavior of waves 2 days the nature of sound 1 day properties of sound 2 days music 1 day using sound 1 day electromagnetic waves 2 days electromagnetic spectrum 2 days radio communication 2 days behavior of light 1 day light and color 1 day producing light 2 days using light 1 day mirrors 1 day lenses 2 days optical instruments