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## 6.P.1.1 - Waves Study Guide

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Transverse Wave (Light): Draw and label the parts of a transverse wave.  A wave type that has movement Perpendicus to the direction of the wave?	Longitudinal Wave (Sound):  Draw and label the parts of a longitudinal (compressional) wave.  Rosefocinal  A wave type that has movement lovely to the direction of the wave?	
Surface Wave: What is a surface wave?  SEISMIC WAVE TRAPPED NEAR THE SURFACE OF THE EARTH	Seismic Waves: What is a seismic wave? CAUGHO BY QUAKES. GO THACK LAYBRE OF THE BARTH P-waves? CAN GO THACKEH SOLIOS, LIQUIOS, GAS S-Waves? CAN ONLY GO THACKEH SOLIOS	est.
Wave Behaviors - Reflection/Refraction/Diffraction: What is reflection? Ancie in = Angle out \( \) \(	*As wavelengths increase, frequency *As wavelengths decrease, frequency *As wavelengths decrease, frequency *As wavelengths decrease, frequency *As wavelengths increase, freq	<sup>१</sup> तचे .
How Does Light Travel as Transverse Waves:  Light waves travel across a vacuum. They need particles to travel. This is why light can travel across space. They form part of the electromagnetic spectrum and travel very fast. About 300,000,000 m/s.  Light Waves = ELECTROMACNETC waves	VISIBLE INFRARED LIGHT UV  MICROWAVE  MICROWAVE  WATERWITH \$000,000,000 19,000 500 250 85 82005 84404000 250 85 82005 844040000000000000000000000000000000	leave had hove Love how LESS enterey General Hove Snow how LESS
How Do Sound Waves Travel Through Matter: All sound waves require a medium (plural, media). Most of the sounds that you hear travel through air at least part of the time. But sound waves can also travel through other materials, such as water, glass, and metal. No sound in space!	Why does an object appear black, white, or red?  Black: All colors from light are and no light is reflected.  White: All colors from light are reflected.	and Mee Erseby
How low or high a sound seems to be is the <u>pitch</u> of that sound.  • High volume = Hier pitch • Low volume = Low pitch	Red: All colors of light are absorbed but only  PED is reflected back to your eyes.	