11/13/2019



Waves are all around Us

- ° light from the stoplight
- ripples in a puddle of
- ° electricity flowing in wires
- ° radio and television and cell phone transmissions







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Animation



<text><text><text><text>

































- **Compressions**: the crowded areas of a longitudinal wave
- Rarefactions: the stretched-out areas of a longitudinal wave













1. ReflectionThe bouncing back of a wave as it meets a surface or boundary Examples: The reflection of light waves in a lake can create a mirror image of a landscape. Water waves are reflected when they hit the side of a boat.



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Interference

 Interference of light waves creates colorful displays • Ex. Rainbows, oil in water, soap bubbles









