

1. Compare and contrast mechanical waves and electromagnetic waves.

MECHANICAL:

- Requires a medium to travel
- cannot travel in space
- transfer energy

ELECTROMAGNETIC:

- No medium to travel
- can travel in space
- transfer energy

2. Define the following:

- a. Reflection - waves bouncing off an object
- b. Refraction - waves bending as they move from 1 medium to another
- c. Diffraction - waves bending through an opening

3. Identify the following images as Reflection, Refraction, or Diffraction.



DIFFRACTION



REFRACTION



REFLECTION



REFRACTION



REFLECTION



DIFFRACTION

4. If the light ray in the image hits a mirror at 40° , at what angle will the ray be reflected? Why?

Mechanical Waves Study Guide

G Orfield



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