

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:

- Reflection - waves bouncing off an object
- Refraction - waves bending as they move from 1 medium to another
- 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?

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A red circular graphic with a gradient, appearing as a stylized wave or a partial circle, located to the right of the EduGorilla Prep Experts text.

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