

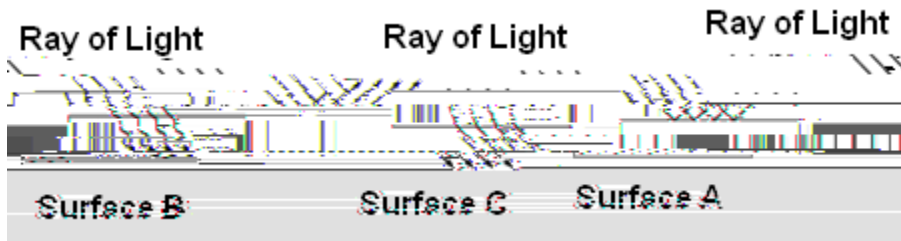
Waves Unit Study Guide KEY

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Figure 1

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Each picture below shows a ray of light interacting with a different surface. One surface is a shiny metal, one surface is clear plastic, and one surface is painted black.



36. Identify which Rays of Light illustrate Refraction, Reflection and Absorption.

Surface A is Reflection; Surface B is Absorption; Surface C is Refraction

37. Identify the surfaces as shiny metal, clear plastic, or painted black. Explain your answer for each.

Surface A is the shiny metal because it would reflect light. Surface B is the painted black surface because black objects absorb all wavelengths therefore no wavelengths are reflected or pass through. Surface C is most likely the clear plastic because the ray of light passes through the plastic but is refracted due to the change in speed of the wavelength because of the change in the medium.