

# Refraction Assignment

Explain **one** of the following phenomena, using **your own words** & **diagrams** in FlipGrid, focusing on the concept of refraction.

- Mirage
- Red sunsets
- Invisibility cloak
- Retro-reflectors
- Fibre optic cables



Rubric:

| Points      | 1   | 2  | 3  | 4   | 5  |
|-------------|---|--|--|---|--|
| Explanation | Correctly uses <b>limited</b> terminology required to explain phenomena / explanation confusing | Correctly uses <b>some</b> terminology required to explain phenomena / explanation not clear | Correctly uses <b>most</b> terminology required to explain phenomena / most of explanation clear | Correctly uses terminology required to <b>clearly</b> explain phenomena | Correctly uses all terminology required to <b>thoroughly</b> explain phenomena |
| Diagrams    | Uses image from <b>internet</b> to show light rays  | Tries to draw light rays to show refraction (vague or some errors)                           | <b>Draws</b> light rays to show refraction (not always clear / contains error)                   | <b>Draws</b> light rays to clearly show how refraction happens          | <b>Draws progression</b> of light rays to clearly show how refraction happens  |
| Example     | 1 vague example / Image missing   | 1 vague example with unclear image   | 1 broad example <b>OR</b> Image unclear  | 1 specific example with <b>one</b> image                                | <b>1 specific</b> example with images  |

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Some key terminology from this topic:

- Angle incidence
- Angle refraction
- Boundary
- Change of speed
- Density
- Incident ray
- Index refraction
- Normal
- Reflected ray
- Reflection
- Refracted ray
- Refraction
- TIR