

Refraction Task

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

- Mirage
- Invisibility cloak
- Shimmering (twinkling stars)
- Flattened sun



Rubric:

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

/15

Some key terminology from this topic:

- | | |
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| <ul style="list-style-type: none"> - Angle incidence - Angle refraction - Boundary - Change of speed - Density - Incident ray - Index refraction | <ul style="list-style-type: none"> - Normal - Reflected ray - Reflection - Refracted ray - Refraction - TIR |
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