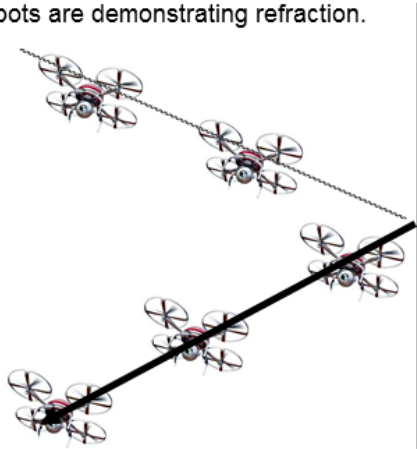


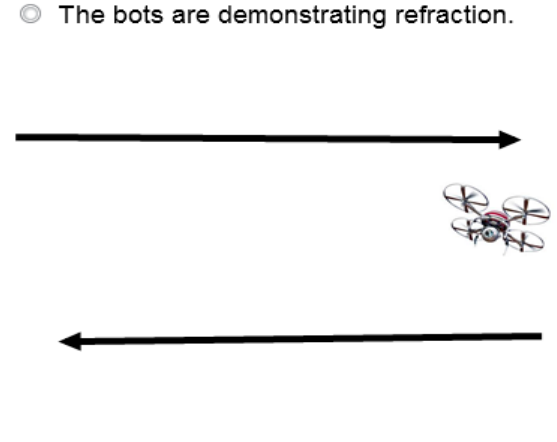
Are these bots demonstrating reflection or refraction.

- The bots are demonstrating reflection.
- The bots are demonstrating refraction.



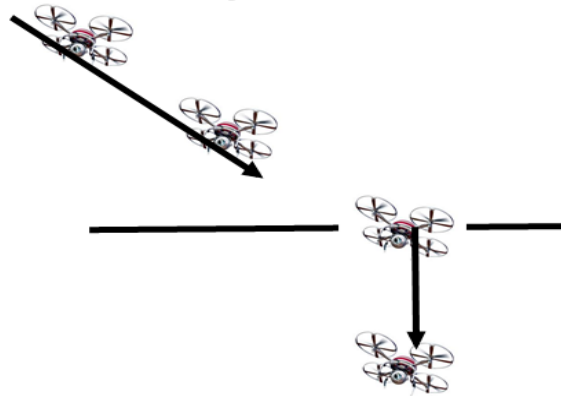
Are these bots demonstrating reflection or refraction.

- The bots are demonstrating reflection.
- The bots are demonstrating refraction.



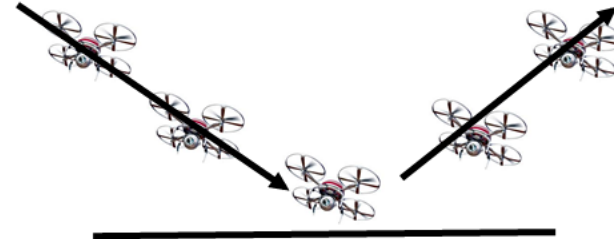
Are these bots demonstrating reflection or refraction.

- The bots are demonstrating reflection.
- The bots are demonstrating refraction.



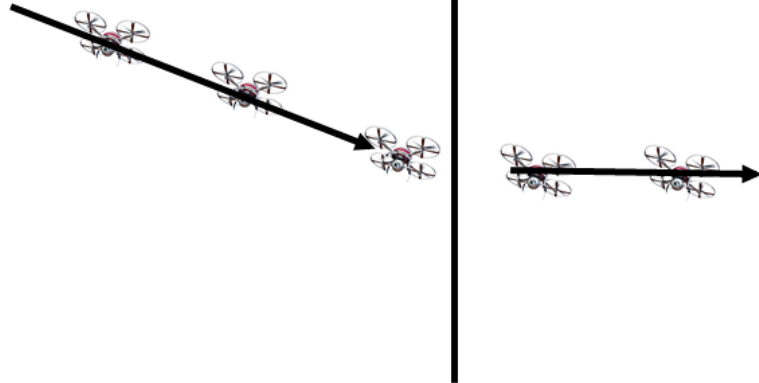
Are these bots demonstrating reflection or refraction.

- The bots are demonstrating reflection.
- The bots are demonstrating refraction.

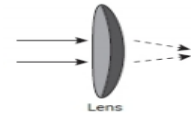


**Are these bots demonstrating reflection or refraction.**

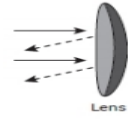
- The bots are demonstrating reflection.
- The bots are demonstrating refraction.



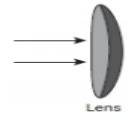
A



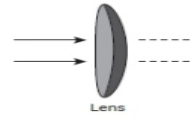
B



C



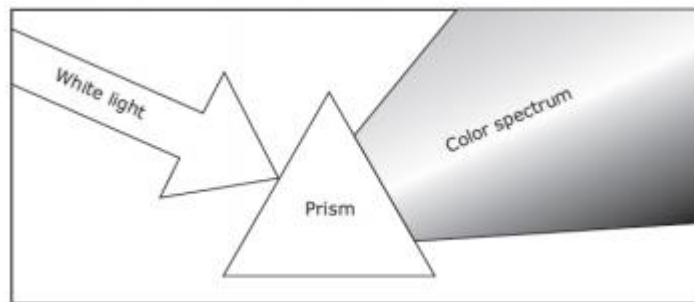
D



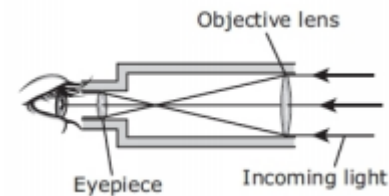
The arrows represent light moving. Find the diagram that represents refraction and justify your answer in complete sentences.

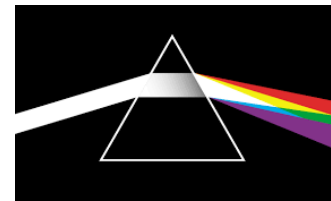
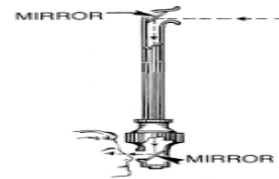
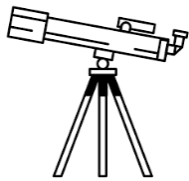
I know that diagram \_\_\_\_ represents refraction because \_\_\_\_\_.

Explain what is happening in this diagram.



This diagram is of the inside of a telescope. A telescope helps us see objects that are far away. Use your knowledge of light to help us understand how a telescope works. Does it use reflection or refraction.?





Sort the characteristics into the following two categories.

What are the characteristics of objects that reflect light?	What are the characteristics of objects that refract light?

## Steps to sort reflection/refraction characteristics and pictures

1. Think about the definition of reflection or refraction.
2. Look at the characteristics or pictures.
3. Ask yourself; what characteristic or picture might go with what I know about (refraction/ reflection)?
4. Say; I know that \_\_\_\_\_ is associated with (reflection/ refraction) because \_\_\_\_\_.
5. Place the characteristic or picture in the T chart.
6. Complete the process until all the characteristics or pictures are sorted. Add any additional characteristics you can think of.

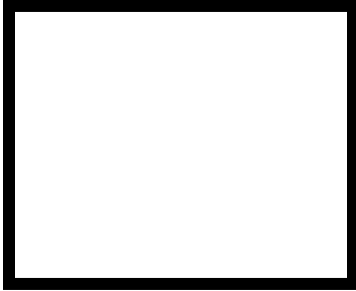
-----cut here-----

<b>Bends Light</b>	<b>Does not travel through a medium</b>	<b>Objects look bigger</b>	<b>Light Bounces</b>
<b>Objects look smaller</b>	<b>Can see the same object</b>	<b>Smooth shiny surfaces</b>	<b>Objects look the same</b>
<b>Travels through a medium</b>	<b>Mirror image</b>	<b>White light becomes color</b>	<b>Light rays slow down</b>

Sort the pictures into the following two categories based on what you think they represent.

Reflection	Refraction

Draw a picture that represents reflection and explain your answer in complete sentences.



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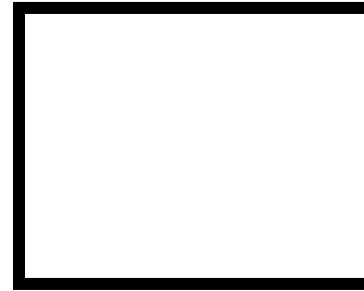
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Draw a picture that represents refraction and explain your answer in complete sentences.



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Create your own definition of the following words.

Reflection

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Refraction

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<b>Bends Light</b>	<b>Does not travel through a medium</b>	<b>Objects look bigger</b>	<b>Light Bounces</b>
<b>Objects look smaller</b>	<b>Can see the same object</b>	<b>Smooth shiny surfaces</b>	<b>Objects look the same</b>
<b>Travels through a medium</b>	<b>Mirror image</b>	<b>White light becomes color</b>	<b>Light rays slow down</b>
<b>Concave Lens</b>	<b>Concave Lens</b>	<b>Eye Glasses</b>	<b>Angle of incident is the same</b>
<b>Objects appear backwards</b>	<b>Light travels in a straight line</b>	<b>Light travels in waves</b>	