

Name: _____

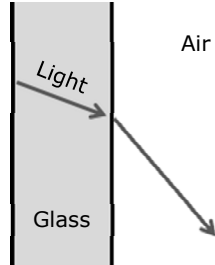
Date: _____

Light

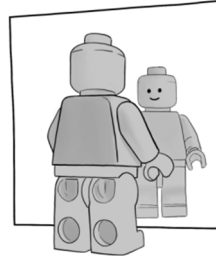
Decide whether image demonstrates *reflection* or *refraction*. Circle your answer.



Reflection or Refraction



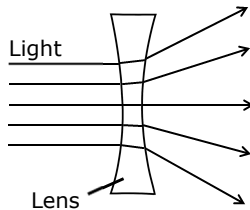
Reflection or Refraction



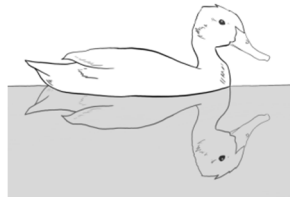
Reflection or Refraction



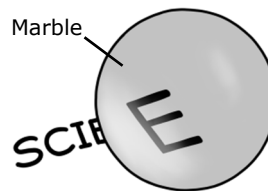
Reflection or Refraction



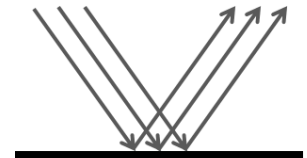
Reflection or Refraction



Reflection or Refraction

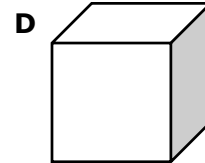
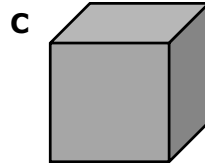
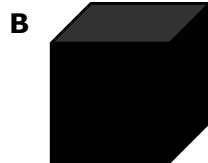
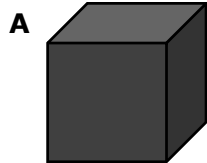


Reflection or Refraction



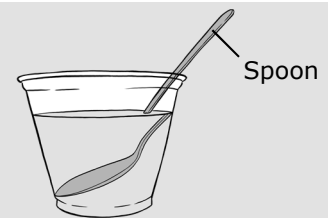
Reflection or Refraction

1. Which of these boxes is painted so that it will reflect the most light?



2. In the picture, the spoon appears to be broken where it enters the water. The spoon appears to be broken because –

- A** light travels in a straight line until it is reflected by the water.
- B** light is absorbed by the water and reflected off the cup.
- C** light is refracted as it moves from one medium to another.
- D** light is scattered by the cup and dissolves in the water.



3. The diagram shows four students standing in front of a mirror. When each student looks into the mirror, he can see at least one other student. Which of the following statements is most likely **not** true?

- A** Kevin can see Stuart.
- B** Bob can see Dave.
- C** Kevin can see himself.
- D** Stuart can see Dave.



Bob



Kevin

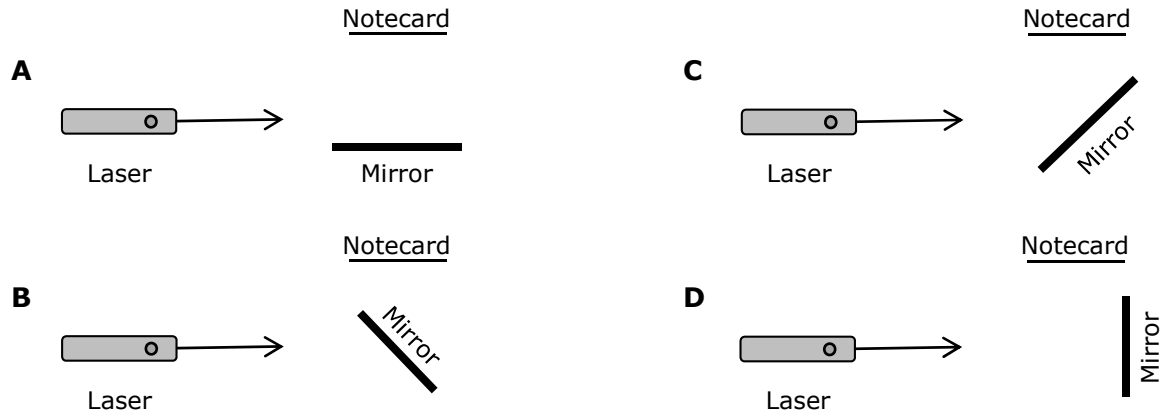


Stuart



Dave

4. A teacher uses a laser to demonstrate how light is reflected. She wants to reflect the light off of a mirror and onto a notecard. How should she position the mirror so that the laser light shines on the notecard?

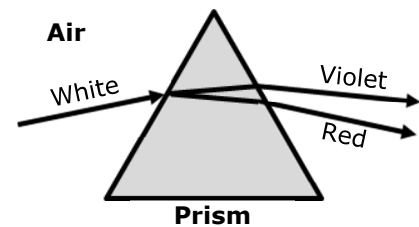


5. In which of these situations would light bend?

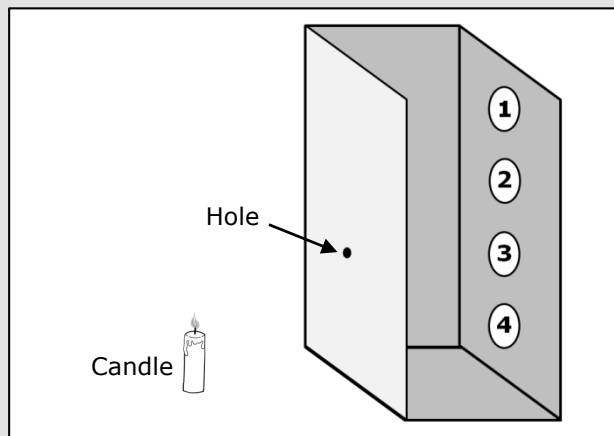
- A** When light strikes a mirror
- B** When light moves through glass into air
- C** When light hits the wall of a house
- D** When light is absorbed by a solar panel

6. White light contains all of the colors of the rainbow. When white light passes through a prism, the different colors become visible. What causes this to happen?

- A** The prism contains tiny droplets of water.
- B** Red is more easily reflected than violet.
- C** Different colors are refracted by different amounts.
- D** The prism absorbs the white light and emits colors.



7. The diagram below shows an investigation about light.



The box has a tiny hole in the front. On the back wall of the box there are four numbered dots. A candle is placed in front of the box and light from the candle travels through the hole. The light from the candle will most likely shine on which numbered dot?

- A** 1
- B** 2
- C** 3
- D** 4