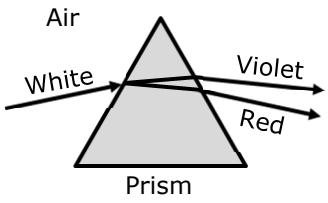
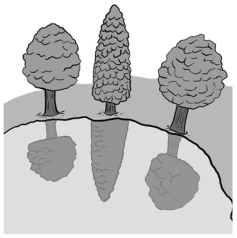
Name: _____ Date: _____

Light

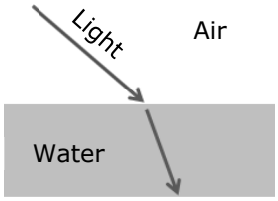
Decide whether image demonstrates *reflection* or *refraction*. Circle your answer.



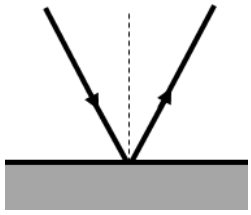
Reflection or **Refraction**



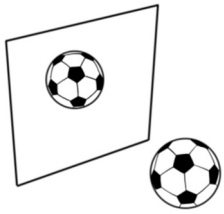
Reflection or **Refraction**



Reflection or **Refraction**

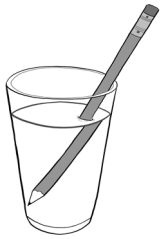


Reflection or **Refraction**

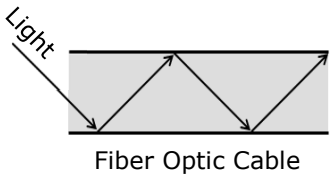


Reflection or **Refraction**

Reflection or **Refraction**



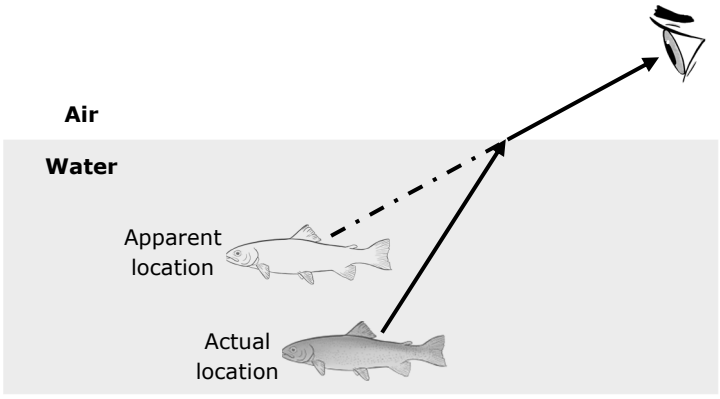
Reflection or **Refraction**



Reflection or **Refraction**

1. A student shines a flashlight at a flat mirror. After the light hits the mirror, the light will always travel –
A back to the flashlight
B around the mirror
C in a straight line
D through the mirror

2. The diagram below shows a fish being viewed from above the water.

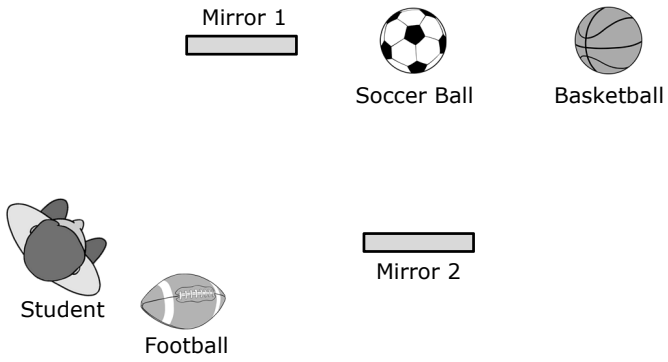


The fish appears to be in a different location than it really is. What causes the fish to appear this way from above the water?
A The light is reflected off the surface of the water.
B The light is absorbed by the water and scattered by the air.
C The light bends as it travels from one medium to another.
D The light from the fish is blocked by the light from the sun.

3. The picture to the right shows part of Mount Hood National Forest. What statement below is supported by this picture?
A The light is refracted by the trees in a forest.
B Light is reflected off of smooth surfaces.
C Light travels in straight lines until it curves around a mountain.
D The sky is blue because it is reflecting the image of the water.

4. Two boys are walking down the sidewalk late in the evening. One boy is wearing a black shirt and the other is wearing a white shirt. Their mother sees them coming and notices that it is easier to see the boy wearing the white shirt. Why is this boy easier to see?
A More light is refracted by the white shirt.
B More light is absorbed by the white shirt.
C More light is reflected by the white shirt.
D More light is produced by the white shirt.

5. A student is in a room with two mirrors and three different balls as shown.



When the student looks at Mirror 1, he most likely sees an image of which ball in the mirror?
A The basketball
B The football
C The soccer ball
D None of the balls can be seen

6. A teacher uses a hand lens during a demonstration on light. The teacher holds the hand lens in front of his eye as shown in the diagram. The teacher's eye appears larger when viewed through the lens. What causes the teacher's eye to be magnified?
A The hand lens reflects light.
B The hand lens produces light.
C The hand lens absorbs light.
D The hand lens refracts light.

7. The illustration to the right shows a tree. The tree casts a shadow on the ground. The size and the shape of the shadow changes throughout the day. Which fact about light explains why shadows are formed?
A After light is produced it travels in straight lines.
B Reflected images can be seen on smooth surfaces.
C Light is refracted when it travels from one medium to another.
D White objects reflect more light than black objects of the same size.