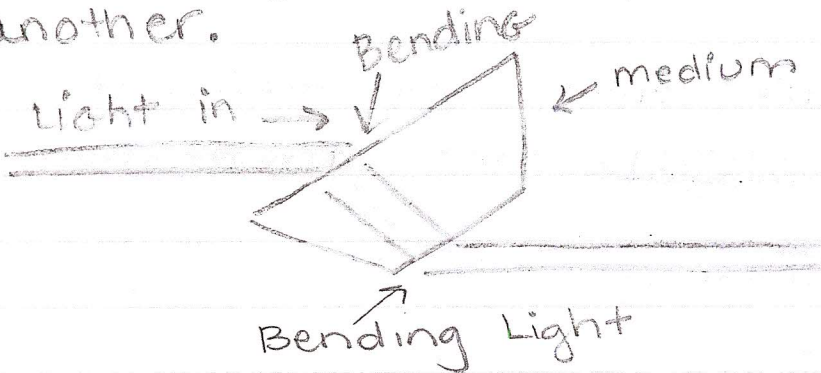
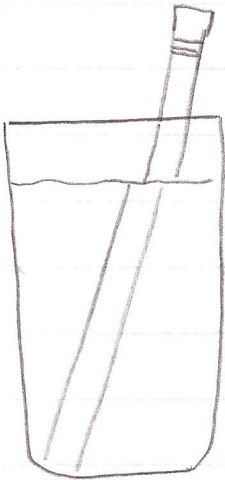


# Refraction

The bending of a wave as it passes at an angle from one medium to another.



## Drawing



## Refraction of Light

### Procedure

1. Fill a drinking glass about half full with drinking water.
2. Place a pencil in the glass. Describe the appearance of the pencil.
3. Slowly add water to the glass. Describe how the appearance of the pencil changes.

### Observations

It looks like the pencil is cut in half

### Analysis

1. How does the appearance of the pencil depend on the level of water in the glass?

The more water in the cup makes the pencil image refract more

2. Where do the light waves coming from the pencil change speed?

Through the changing medium -  
From the air to the water

3. Infer how the appearance of the pencil and the change in speed of the light waves are related.

The light waves slow down and speed up as it changes mediums  
Thus changing the image of the pencil