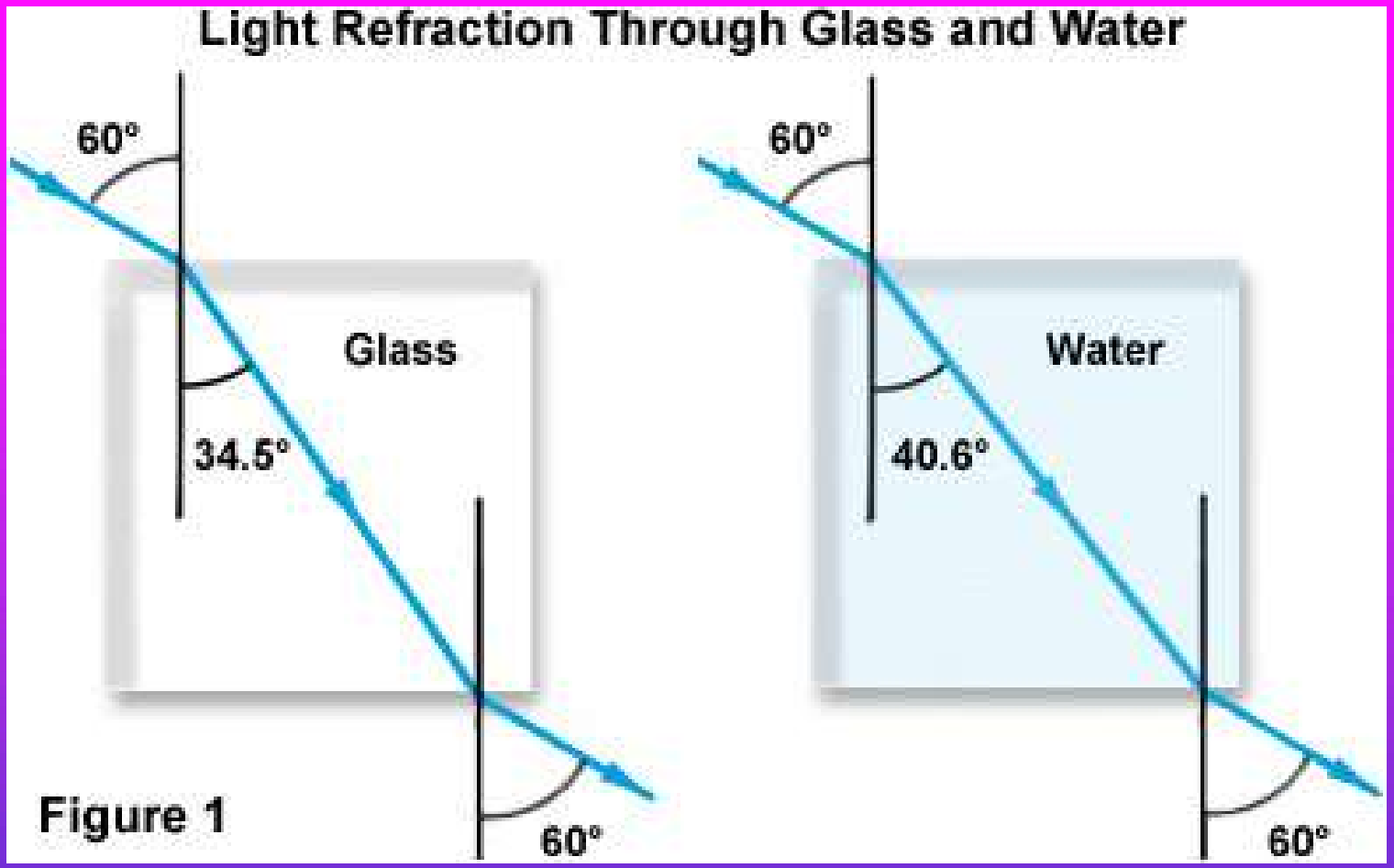
Refraction

- This is the bending of light rays
- Happens because the rays change speed.
- When they enter a more dense medium (glass, water,) they slow down.
- When they enter a less dense medium – like air, they speed up.

Figure 3



http://micro.magnet.fsu.edu/primer/java/refraction/index.html

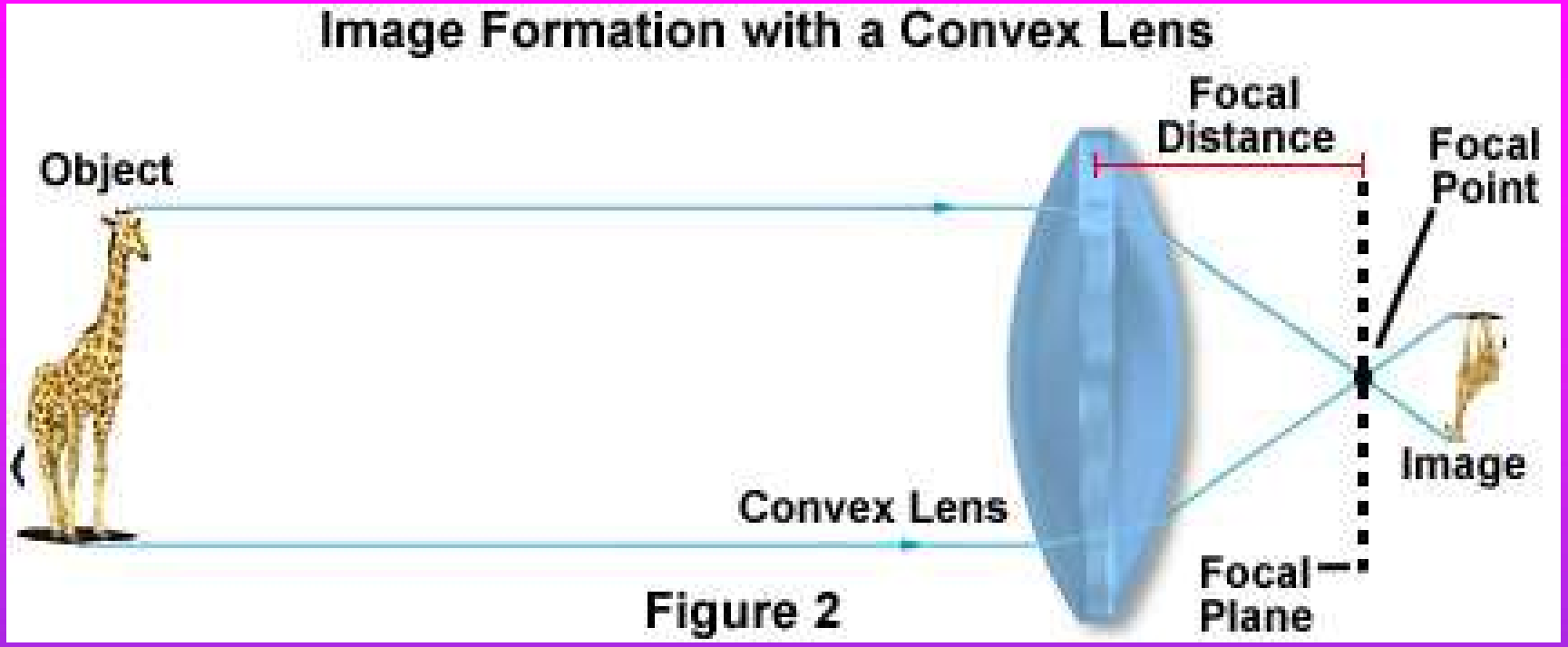


Image Formation with a Convex Lens
Object
Focal
Distance
Focal
Point
Image
Convex Lens
Focal
Plane

Figure 2

Total internal reflection and refraction

- When an object is viewed through water the image we see is changed because of the way light waves behave as they pass from the water into the air.

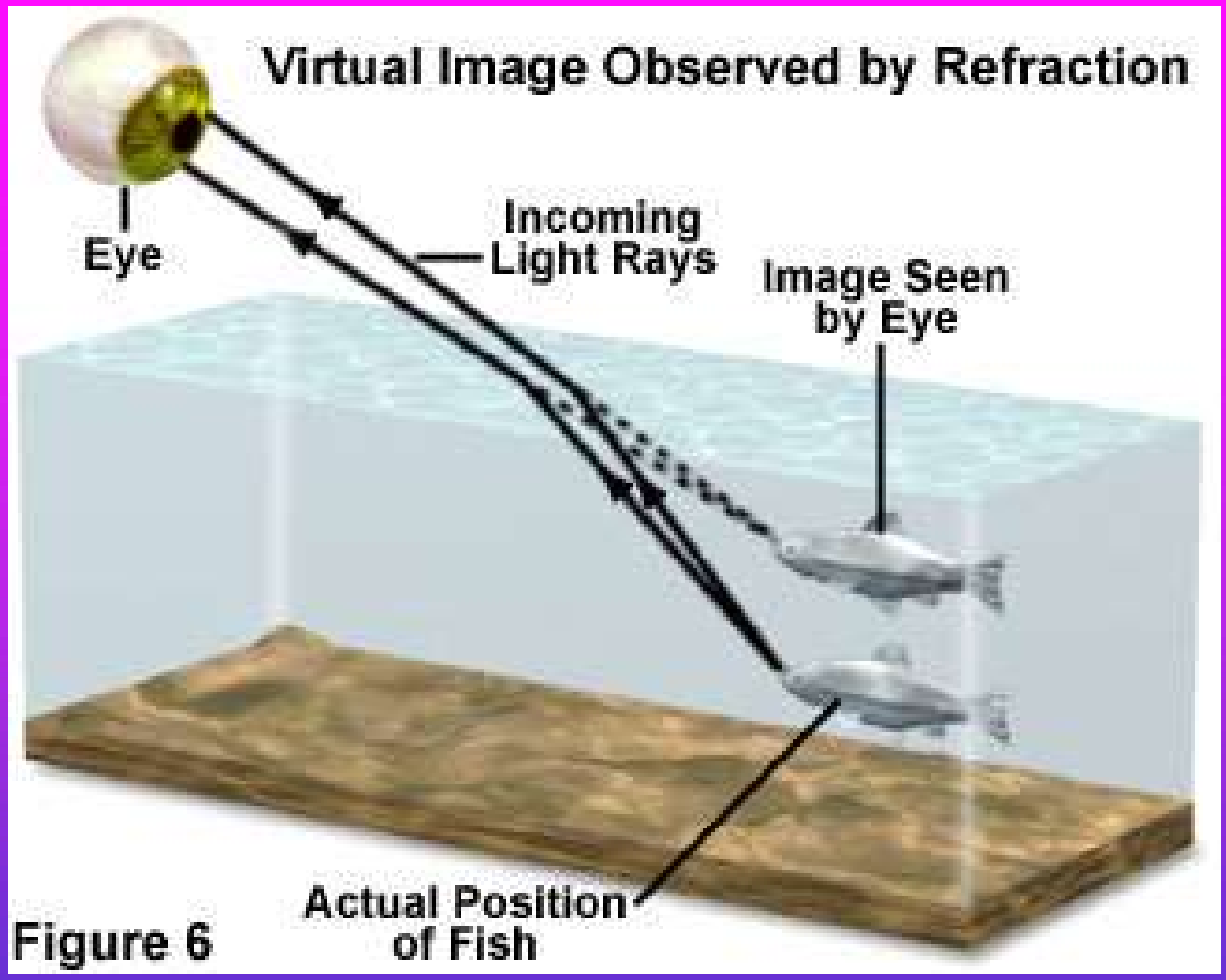


Figure 6

CLICK HERE FOR INTERACTIVE SITE

http://micro.magnet.fsu.edu/primer/java/refraction/fishtank/index.html

COLOUR

White light is made up of the seven colours of the rainbow.

Red, orange, yellow, green, blue, indigo, and violet.

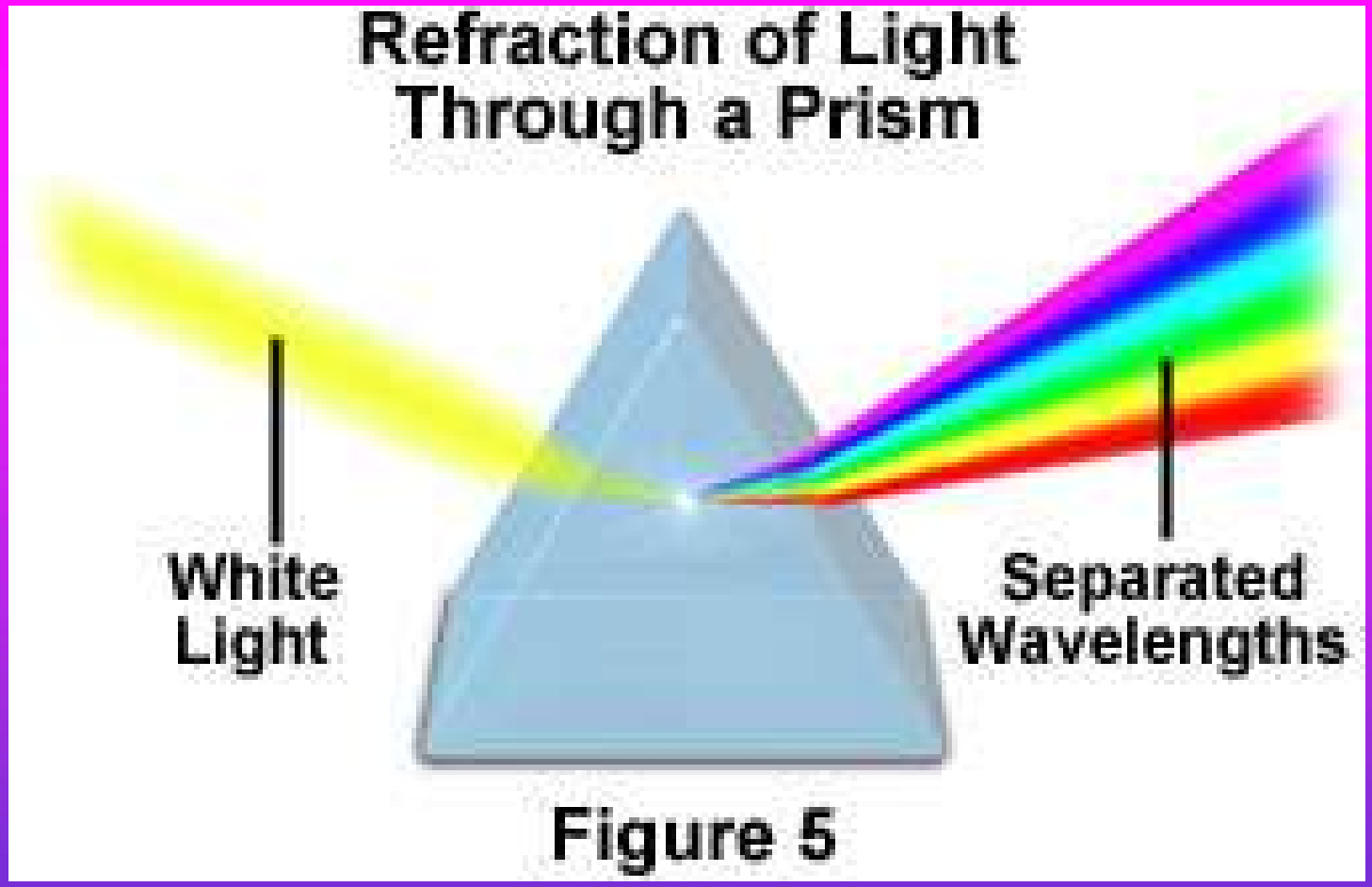

Refraction of Light
Through a Prism
White
Light
Separated
Wavelengths

Figure 5

RAINBOWS

- We see rainbows because the light is first refracted by the raindrop and then reflected off the back of the raindrop.