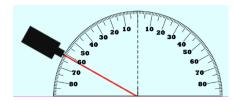
Study Guide to take Retake on Reflection / Refraction

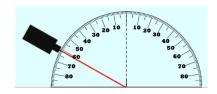
- 1. Label the following on BOTH pictures
 - Incoming Line
 - Angle of Incidence
 - Normal Line (you will have to draw in)
 - Reflected Line
 - Angle of Reflection





- 2. When an object hits a surface through which it cannot pass and bounces back, it is called?
- 3. The bending of light as it passes from one substance to another, is called?
- 4. What is the name of the line, that goes straight up and down, where you measure the angle of reflection, refraction or incidence called?
- 5. Draw in where the <u>reflection ray</u> would be on for all 3 images below.





- 6. How does the angle of incidence compare to the angel of reflection?
- 7. The _____ the speed of light in a material, the higher (larger) its refractive index.
 - a. (faster, slower, or same)
- 8. The _____ the speed of light in a material, the lower (smaller) its refractive index.
 - a. (faster, slower, or same)

Transparent Material	Refracted Index Number
Water	1.33
Glass	1.53
Transparent Plastic	1.50
Silica	1.44
Crystal	2.00
Ruby	1.77
Stain Glass	1.61

- 9. From the choices in the table above, which transparent material does light travel through the fastest?
- 10. From the choices in the table above, which transparent material does light travel through the slowest?
- 11. From the choices in the table above, which transparent material does would bend light (refract) the most?
- 12. From the choices in the table above, which transparent material does would bend light (refract) the least?