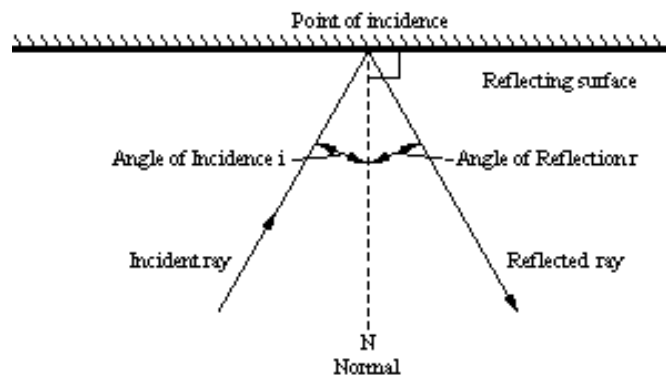


# Light-en Up

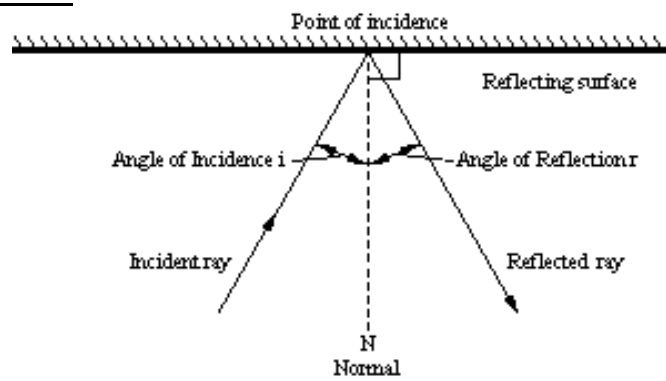
1. Light acts like a \_\_\_\_\_ and a \_\_\_\_\_.
2. Light only “bends” when the \_\_\_\_\_ it travels in changes. Otherwise, it travels in a \_\_\_\_\_.
3. The “bending” of light is known as \_\_\_\_\_.
4. When light is reflected, and angle of reflection is equal to the angle of \_\_\_\_\_.



5. White light is made up of \_\_\_\_\_ colors.
6. When light crashes into matter (stuff), it can:
  - a. Go through: \_\_\_\_\_
  - b. Get eaten: \_\_\_\_\_
  - c. Get bounced: \_\_\_\_\_
7. Before you can see anything, light must go \_\_\_\_\_ your \_\_\_\_\_.
8. When light hits an object, the \_\_\_\_\_ you see is the only one being \_\_\_\_\_. All the others are being \_\_\_\_\_.
9. A special shape used to control or change light is called a \_\_\_\_\_. Lenses \_\_\_\_\_ light.
- 10 Scientists use lenses to create \_\_\_\_\_.

# Light Lecture

1. Light acts like a wave and a particle.
2. Light only “bends” when the medium it travels in changes. Otherwise, it travels in a straight line.
3. The “bending” of light is known as refraction.
4. When light is reflected, and angle of reflection is equal to the angle of incidence.



5. White light is made up of all colors.
6. When light crashes into matter (stuff), it can:
  - a. Go through: transmitted
  - b. Get eaten: absorbed
  - c. Get bounced: reflected
7. Before you can see anything, light must go into your eyes.
8. When light hits an object, the color you see is the only one being reflected. All the others are being absorbed.
8. A special shape used to control or change light is called a lens. Lenses refract light.
- 10 Scientists use lenses to create cameras, telescopes and microscopes.