

The Photo-Electric Effect

(Frequently done)

Purpose:

Demonstrates the photo-electric effect.

Required Materials:

1 – Flash Light 1 – Photo-Electric Apparatus

Red, Blue, and Yellow 6 x 6 inch plate glass

Procedure:

The Photoelectric effect is when electrons are emitted from matter after the absorption of energy from electromagnetic radiation such as visible. The photoelectric apparatus for this procedure, was turned on 1 minute before its use, exposed the sensor to a flash beam, the sensor is connected to a buzzer. Once the flashlight beam hits the sensor the buzzer goes off. Each 6 x 6 inch glass plate is put between the flashlight and the sensor. The buzzer sounded as the light from the flashlight passed through, but the buzzer didn't sound when the red plate was placed between the flashlight and the sensor.

Reaction:

There is no reaction for this demonstration.

Waste:

There is no waste in this demonstration.
Simply put the materials used back where they are stored.

