

GUMMED UP PHOTONS

In this investigation, you will observe the way that different colors of light are transmitted or absorbed by differently colored mediums.

Materials:

- Red, White, and Green Gummy Bears (one of each color)
- Red, White, and Green light sources (one of each color)
- One Notecard
- One Ruler
- Pencil

Safety: Lasers and other bright lights may cause eye damage if viewed directly. Keep the light sources pointed at the notecard and away from your eyes and the eyes of others.

Predictions:

Gummy Bear	Red Light	White Light	Green Light
Red Gummy Bear			
White Gummy Bear			
Green Gummy Bear			

Procedures:

1. Collect all materials.
2. Prop up the notecard against the wall or a textbook.
3. Place the Gummy Bears on the table, side by side, with the heads pointed toward the notecard. They should be about 5 cm away from the card.
4. Point the red light source at the feet of the red bear towards the card. Hold it as close to the bear as possible. Record whether or not you see the light transmitted onto the card.
5. Shine the red light through the other two Gummy Bears in the same way and record your observations.
6. Repeat steps 4 and 5 with the other two light sources.
7. Return your materials to the same place.

Results:

Gummy Bear	Red Light	White Light	Green Light
Red Gummy Bear			
White Gummy Bear			
Green Gummy Bear			

