



Name _____ Date _____

Colored Lights

Procedure

1. Place a sheet of white paper on a table. The room should be dim.
2. **Observe** Shine a flashlight on the paper. Record the color that the paper appears to be.

3. **Experiment** Hold a piece of blue cellophane in front of the flashlight lens. Shine the light on the paper. Record the color that the paper appears to be.

4. **Predict** Hold a piece of red cellophane in front of the flashlight lens. Predict the color that the paper will appear to be. Test your prediction. Compare your prediction with what you observe.

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Conclusion

1. **Infer** How does the color of the cellophane affect the color of the light that you see coming from the flashlight?

2. In steps 3 and 4, how does the color of the light affect the color that the white paper appears to be?

3. **Predict** In step 3, suppose you shined the flashlight on a sheet of green paper. What color do you think the paper would appear to be? If possible, test your predictions.

Experiment

Guided Inquiry

Test other combinations of colored cellophane and colored paper. Predict the outcome of each test before you carry it out. Compare your results with your predictions.