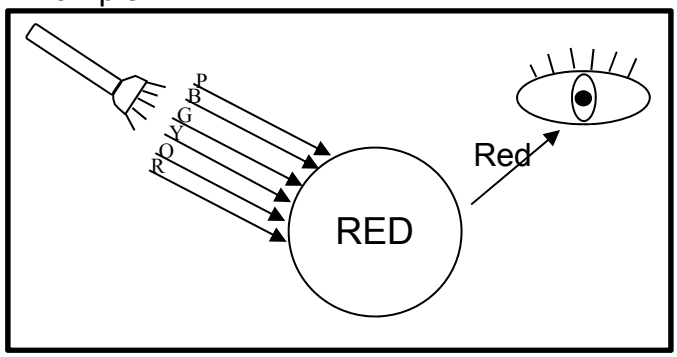
Name _____

# Explorations of Color

## *Section A:*

When light shines on a red object, the object reflects red light and absorbs all other light.

Example:




**Color of Object: Red**

Light reflected: Red

Light absorbed: orange, yellow, green, blue, purple

Draw and write what colors are reflected and absorbed in the following examples:

**Color of Object: Purple**

Light reflected: _____

Light absorbed: _____

**Color of Object: White**

Light reflected: _____

Light absorbed: _____

**Color of Object: Black**

Light reflected: _____

Light absorbed: _____

## *Section B:*

Draw and predict what color each object will appear when viewed through a red filter.

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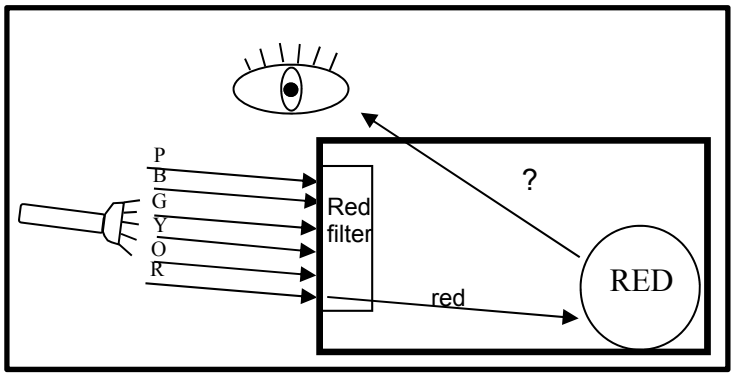
Example:




**Color of Object in White Light: Red**

Color of object through red filter:

Predicted: _____ Actual: _____

**Color of Object in White Light: White**

Color of object through red filter:

Predicted: _____ Actual: _____

**Color of Object in White Light: Black**

Color of object through red filter:

Predicted: _____ Actual: _____

**Color of Object in White Light: _____**

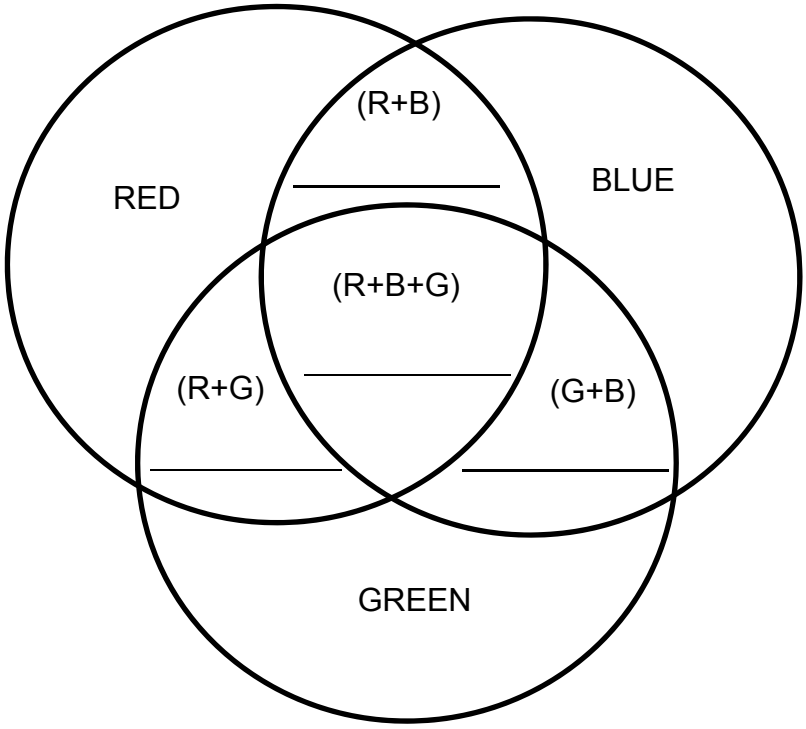
Color of object through red filter:

Predicted: _____ Actual: _____

## *Section C:*

Mixing Light

**Predict** what colors will be created when mixing red, blue, and green light.




Now use the flashlights with colored filters to observe what colors are actually created. Record them here: