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.

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: