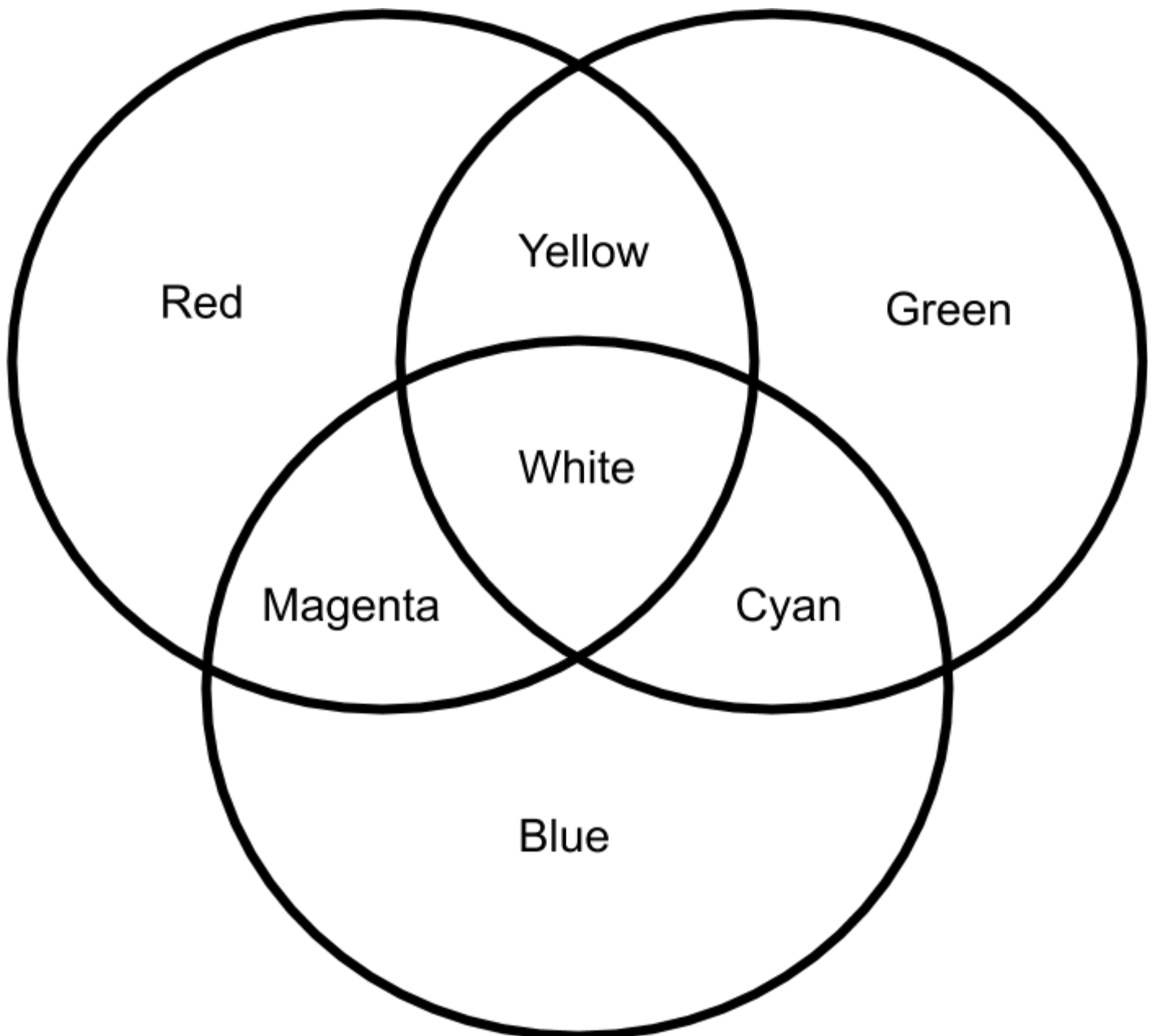




## Fun With the Color Mixing of Light

**Directions:** Lay this sheet flat on a surface or have someone hold it up in front of you. Next, shine each colored flashlight one at a time over the circle with the color name of that flashlight. Then, try shining two flashlights and see the resulting color mixture where the circles overlap. Finally, see if you can shine all the colors together and see what happens in the place where all three circles overlap! (Tip: move the flashlights farther away from the paper to fill more of the circles)





## Color Math: Adding and Subtracting Colors of Light

**Directions:** If you think you've got the color mixing of light down, then you might be ready for a challenge. See if you can predict what colors will result from the color math problems below. Remember that when you see the + symbol it tells you to add, or combining colors together, and the — symbol tells you to subtract, or take away one color from another. (Tip: you can use your colored flashlights to help, if you need, and see what happens when you add or subtract colored light!)

1. **RED + \_\_\_\_\_ = YELLOW**
2. **CYAN — BLUE = \_\_\_\_\_**
3. **RED + BLUE = \_\_\_\_\_**
4. **MAGENTA — RED = \_\_\_\_\_**
5. **BLUE + \_\_\_\_\_ + GREEN = WHITE**
6. **\_\_\_\_\_ — BLUE = YELLOW**
7. **GREEN + \_\_\_\_\_ = CYAN**
8. **WHITE — RED = \_\_\_\_\_**
9. **\_\_\_\_\_ — GREEN = RED**
10. **WHITE — GREEN = \_\_\_\_\_**

Answers: 1) G, 2) G, 3) M, 4) B, 5) R, 6) W, 7) B, 8) C, 9) Y, 10) M