PHYSICS IN MOTION
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Unit 6I
Color
Practice Problems TEACHER

Work each of the following problems. SHOW ALL WORK.

1. **Which color is seen when the following two colors of light are combined?**

   a. **red light + green light =** *yellow*

   b. **red light + cyan light =** *white*

   c. **green light + magenta light =** *white*

   d. **green light + blue light =** *cyan*

   e. **red light + blue light =** *magenta*

2. **Which color is seen when the following colors of light are shown on the corresponding colors of paper?**

   a. **red light on blue paper:** *black (blue pigment reflects only blue)*

   b. **blue light on cyan paper:** *blue (cyan pigment reflects blue and green)*

   c. **green light on yellow paper:** *green (yellow pigment reflects red and green)*

   d. **magenta light on red paper:** *red (magenta light is made of blue and red, and red pigment reflects only red)*

   e. **magenta light on green paper:** *black (green pigment reflects only green)*

   f. **blue light on yellow paper:** *black (yellow pigment reflects only red and green)*

   g. **cyan light on magenta paper:** *blue (cyan light is made of green and blue, and magenta pigment reflects red and blue)*

   h. **yellow light on cyan paper:** *green (yellow light is made of red and green, and cyan pigment reflects blue and green)*

   i. **magenta light on yellow paper:** *red (magenta light is made of blue and red, and yellow pigment reflects green and red)*

   j. **cyan light on green paper:** *green (cyan light is made of blue and green, and green pigment reflects only green)*

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