

Name: \_\_\_\_\_

1. Complete the following table in which two colors of light are combined.

	Color of Light 1	Color of Light 2	Resulting Color
A	Red	Green	
B	Blue	Red	
C	Cyan	Red	
D	Yellow	Blue	
E	Green	Blue	

2. Complete the following table in which two colors of pigment are combined.

	Color of Pigment 1	Color of Pigment 2	Resulting Color
A	Blue	Green	
B	Cyan	Magenta	
C	Yellow	Cyan	
D	Magenta	Yellow	
E	Red	Blue	

3. Complete the following table in which a color of light strikes a pigmented surface.

	Color of Light	Color of Pigment	Resulting Color
A	Red	Yellow	
B	Blue	Magenta	
C	Yellow	Red	
D	Magenta	Cyan	
E	Cyan	Yellow	

4. A laser beam travels from one shore of a lake to the opposite side which is 6000-m away. If light travels at  $3.0 \times 10^8$  m/s, how long does it take the light to travel from one shore to the other?
5. A red heat lamp has a wavelength of 750 nm. What is the frequency of the light if its speed is  $3.0 \times 10^8$  m/s?