

Name(s):

Measuring Ocean Color – Data Table 1

Record LED value in the table below.

Sample	Blue LED value	Green LED value	Red LED value
Clear water			
Blue water			
Green water			
Tea water			

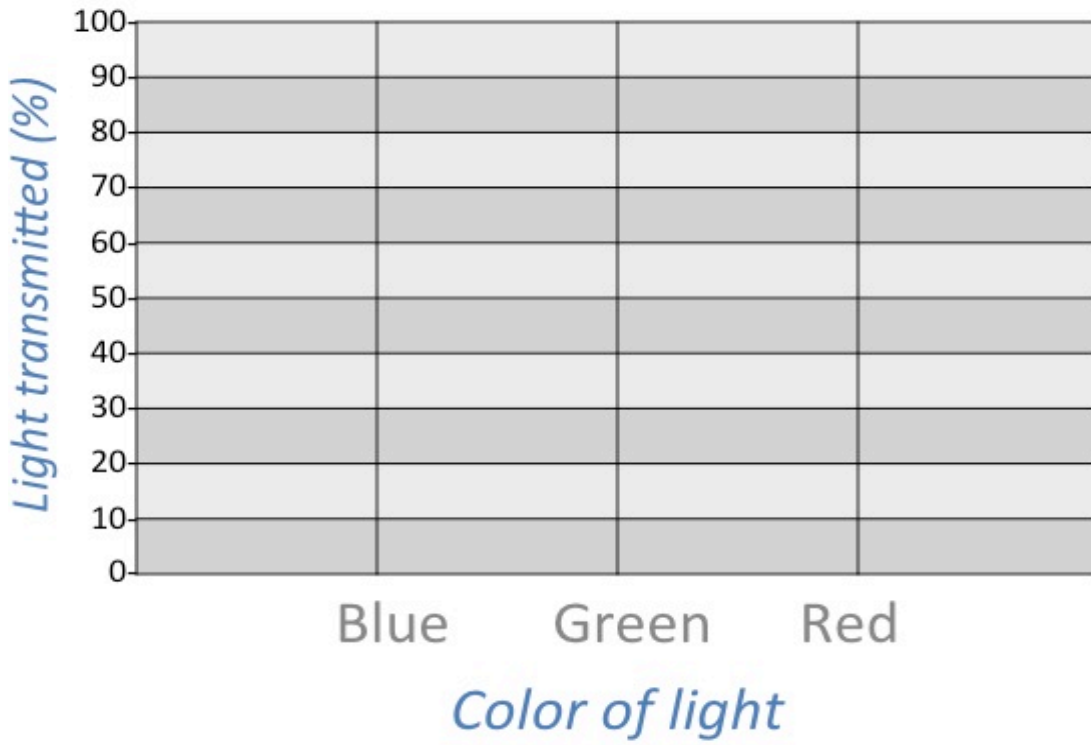
Measuring Ocean Color - Data Table 2

For each colored water sample, divide the values for red, green, and blue light by the value for the clear water sample and multiply by 100 for the percent of total light transmitted (i.e., clear water is 100% for each LED, percent of blue light transmitted through blue water is the blue LED value in blue water divided by the blue LED value in clear water: $73/97 = 75\%$ in this example).

Calculate the percent of light transmitted in the table below.

Sample	Blue % transmitted	Green % transmitted	Red % transmitted
Clear water	100	100	100
Blue water			
Green water			
Tea water			

Measuring Ocean Color - Graph 1



Measuring Ocean Color - Graph 2



Name(s):

Measuring Ocean Color – Data Table 3

Record LED value in the table below.

Sample	Blue LED value	Green LED value	Red LED value
+ 1 tsp milk			
+1tsp milk + blue			
+1tsp milk +green			
+1tsp milk + tea			

Measuring Ocean Color - Data Table 4

For each colored water sample, divide the values for red, green, and blue light by the value for the clear water sample and multiply by 100 for the percent of total light transmitted (i.e., clear water is 100% for each LED, percent of blue light transmitted through blue water is the blue LED value in blue water divided by the blue LED value in clear water: $73/97 = 75\%$ in this example).

Calculate the percent of light transmitted in the table below

Sample	Blue % transmitted	Green % transmitted	Red % transmitted
+ 1 tsp milk	100	100	100
+1tsp milk + blue			
+1tsp milk +green			
+1tsp milk + tea			