

Name: _____

Per: _____

What's the Frequency, Roy G. Biv?

Team Members

Data Keeper / Reader : _____

Materials Manager / Checker : _____

Time Keeper / Facilitator : _____

Data Table

Summary

Use the following data table to keep track of your frequency trials.

	Trial 1		Trial 2		Trial 3	
	Tally	Total	Tally	Total	Tally	Total
Red						
Green						
Violet						
Average						
Time						
Frequency						

Lab Questions:

1. Look at the wavelengths and frequencies of the three waves. What patterns do you notice about the relationships between the three colors?

2. Which color had the shortest wavelength?
3. Which color had the longest wavelength?
4. Which color had the highest frequency?
5. Which color had the lowest frequency?
6. What is the relationship of the red **wavelength** to the green **wavelength**?
7. What is the relationship of the red **wavelength** to the violet **wavelength**?
8. What is the relationship of the red **frequency** to the green **frequency**?
9. What is the relationship of the red **frequency** to the violet **frequency**?
10. If waves are moving at the same speed, what is the relationship between **wavelength** and **frequency**?
11. Based on the above relationship, if you were to look at a blue wave, would it have a higher or lower **frequency** than the green wave?
12. Based on the above relationship, if you were to look at an orange wave, would it have a longer or shorter **wavelength** than the green wave?
13. GRADE YOUR TEAMMATES: Provide an individual score to each of your partners based on their being on-task, helpful, productive, and an essential part of the team (BE HONEST):
 - a. Name and Role: _____
 - b. Name and Role: _____

50 = F 60 = D 70 = C 80 = B 90 = A