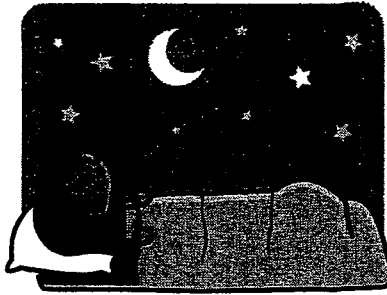


NAME \_\_\_\_\_

EARTH SCIENCE

STARLIGHT, STARBRIGHT, HOW MUCH ENERGY DO YOU SEND TONIGHT?



AIM: What is the relationship between the wavelength of light, and the energy of that light?

Fill in the table using the demonstration with the light source and radiometer

Observation #	COLOR of the light source	Relative energy released (#1 is greatest and #4 is the least)	Average Wavelength released (estimated by the color--use ESRT)
1			
2			
3			
4			

1. Which color released the most energy? \_\_\_\_\_
2. Which color released the least energy? \_\_\_\_\_
3. What happened to the size of the wavelengths as the released energy decreased? (did the sizes in the range increase or decrease?) \_\_\_\_\_
4. What is the relationship between the wavelength of light, and the energy of that light?

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5. Which color star can be inferred to have the highest temperature: red, orange, blue, or yellow? \_\_\_\_\_

WHY? \_\_\_\_\_

6. Which color star can be inferred to have the lowest temperature: red, orange, blue, or yellow? \_\_\_\_\_

WHY? \_\_\_\_\_

