

Spectroscope - used to refract light and split it into certain wavelengths (colors)

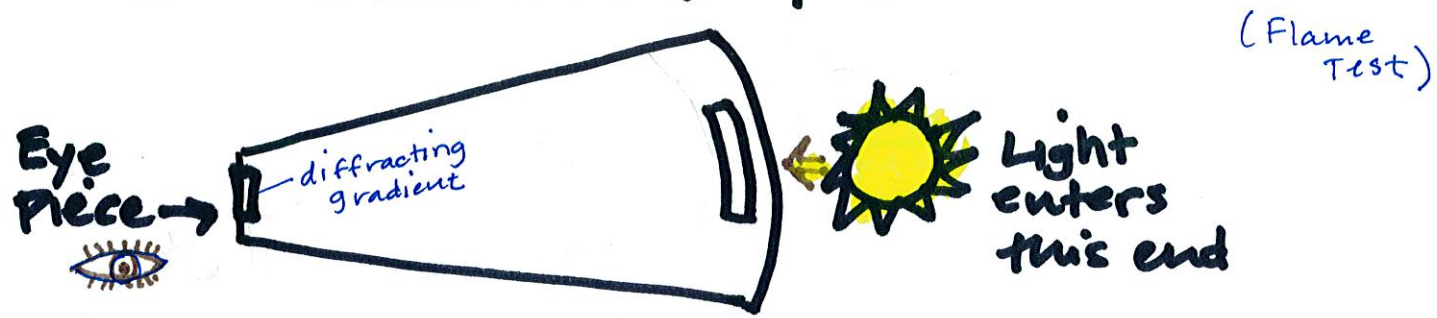
Spectro = Spectrum (range of wavelengths / colors)

Scope = to view

USES:

Astronomers use spectroscopes on telescopes to determine what elements are present in stars. (Hydrogen, Helium etc.)

Chemists use spectroscopes to determine which elements are present in substances.



Ultra-violet Light
165544
ROYGBIV

Fluorescent Light (Hg)
ROGBIV (missing yellow 1)
16544

Flashlight
ROYGBIV

Red = 650 nm
Orange = 590 nm
Yellow = 570 nm

Green = 510 nm
Blue = 475 nm
Indigo = 445 nm
Violet = 400 nm

LIGHT LAB

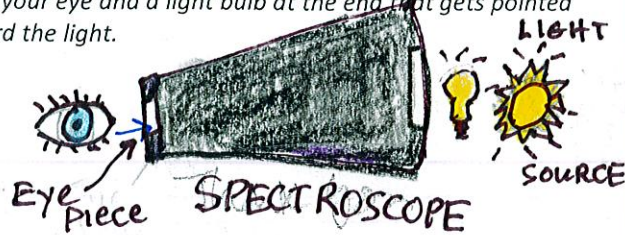
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Class Period 1st

Date 5/11/16

an instrument which breaks white light down into certain wavelengths (colors)

1. Spectroscope/ (Spectrograph) - Draw and color this instrument below. Draw an eye next to the end where you place your eye and a light bulb at the end that gets pointed toward the light.

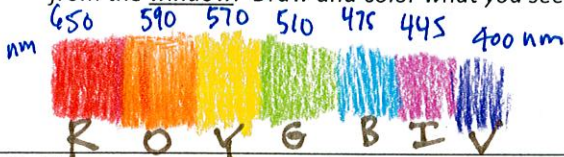


2. Spectroscope- Read page 346 in the red textbook. Explain what a spectrograph (spectroscope) does and why scientists use them.

Astronomers use spectroscopes on telescopes to determine what elements are present in stars (Hydrogen, Helium etc)

CHEMISTS - use spectroscopes to determine what elements are present in substances (Flame tests)

3. Spectroscope- use it to view ultraviolet light coming in from the window. Draw and color what you see:



4. Spectroscope- use it to view fluorescent light coming from the tubes in the ceiling. Draw and color what you see:



5) Biconvex lens - Observe the text through the lens. See



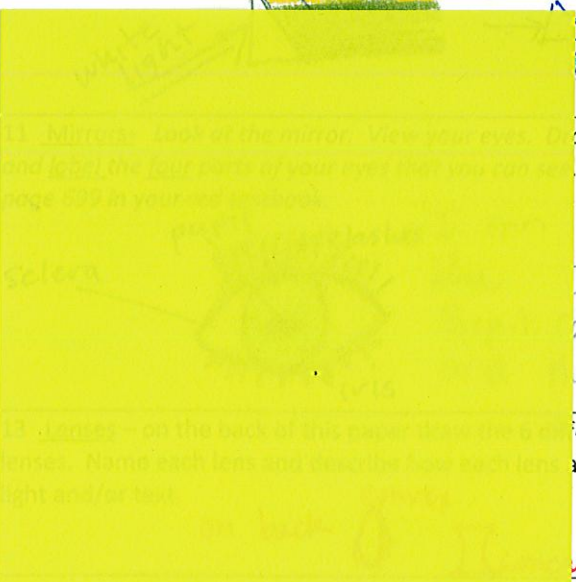
6) Biconvex Lens- Use this lens to read some text in your book. How does this lens affect what you see? Describe below:

...gger and lens used lass. mes together

... your describe below: ... and diverges (spreads)

... do you ations.

... sed 2 prisms to refract and reflect white light.

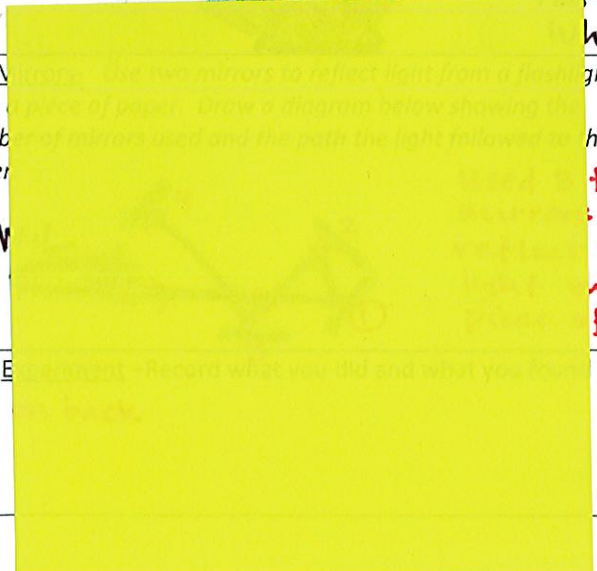


aw, color, Refer to see Iris, cornea, lens

12 N onto numb paper

erent affects

14 - E out.



to 4 to white into a f paper.

3.5 LIGHT FROM
FLASHLIGHT
ON PHONE



4.5 LIGHT EMITTED
FROM FRONT
OF PHONE (SCREEN)

