Electron Energy and Light

How does light reveal the behavior of electrons in an atom?

Why?

From fireworks to stars, the color of light is useful in finding out what's in matter. The emission of light by hydrogen and other atoms has played a key role in understanding the electronic structure of atoms. Trace materials, such as evidence from a crime scene, lead in paint or mercury in drinking water, can be identified by heating or burning the materials and examining the color(s) of light given off in the form of bright-line spectra.

Model 1 - White Light

| Lightbulb Prism (white light) | Color | Photon Energy (× 10 ⁻²⁸) (J) | Wavelength Range (nm) | Speed (m/s) |
|-------------------------------|----------|---|---|--|
| | Reds | 269-318- | 625-740 | 3.00 × 10" |
| | Oranges | 318-337 | 590-625 | 3.00 × 104 |
| | -Yellows | 337-352 | 565-590 | 3.00×10^4 |
| | Greens | 352-382 | 520-565 | 3.00×10^{4} |
| | Blues | 382-452 | 440-520 | 3.00×10^{4} |
| | Violets | - 1452-523; | 380 440 | 3,005-107 |
| | Prism | Prism Preds Poranges Preliows | Prism Color (× 10 ⁻²⁸) (J) Reds Coranges 318-337 Vellows 337-352 Greeps 352-382 | Prism Color (× 10 ⁻²⁸) (J) Range (nm) Reds 269–318 625–740 Coranges 318–337 590–625 Yellows 337–352 565–590 Greeps 352–382 520–565 Filices 382–452 440–520 |

- Trace the assows in Model 1 and shade in the table with colored pencils where appropriate.
- 2. What happens to white light when it passes through a prism?

- The different Wavelength's get Separated

 3. Why are the color labels in the table in Model I plural (i.e., Recis" rather than "Red")?

 Many different Shades of a color in a range of wavelength.
- 4. Do all colors of light travel at the same speed?
- 5. Do all colors of light have the same energy? If no, which colors have the highest energy and the least energy, respectively?

least energy, respectively? All colors do not have the same energy. Blues - notets higher Consider the light illustrated in Model 1. Consider the light illustrated in Model 1.

- - Which color corresponds to the longest wavelengths?

6. Which color corresponds to the shortest wavelengths?

1/1 olets

c. Write a sentence that describes the relationship between wavelength and energy of light.

Electron Energy and Light of light in creases

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R Sandford

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