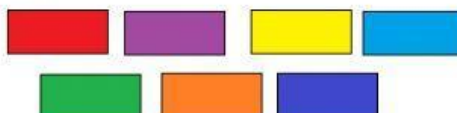


Light and Color

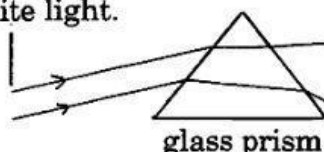
Drag and drop the colors to their correct position on the spectrum, longest to shortest wavelength.



On lines A through G, name the colors of the spectrum, starting with the longest wavelength and ending with the shortest.

Rays of sunlight or white light.

Colors That Make Up White Light



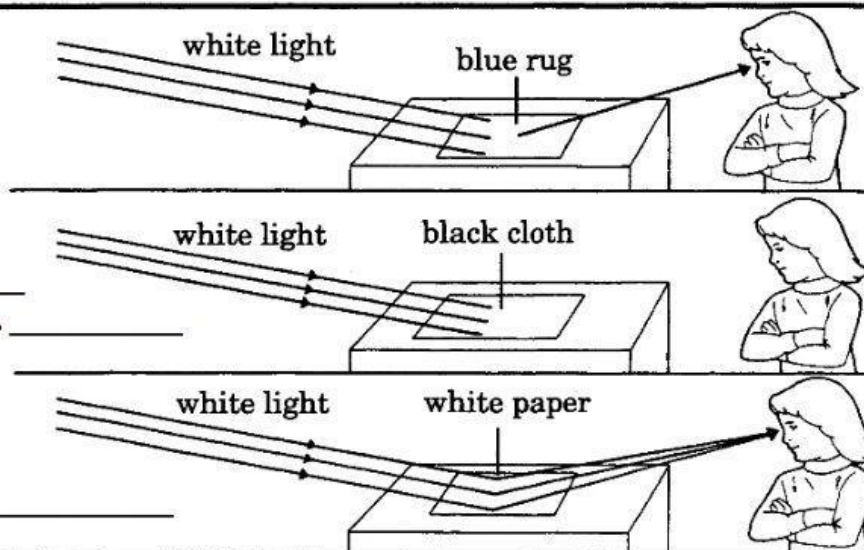
Spectrum of all colors.

- A. _____
- B. _____
- C. _____
- D. _____
- E. _____
- F. _____
- G. _____

All the rays are absorbed except 1. _____

No rays are reflected. All the rays are 2. _____ and are changed to 3. _____

All the rays are 4. _____



Drag and drop
red
orange
yellow
green
blue
indigo
violet
absorbed
reflected
heat
light

Write the word or words that will make each sentence a true statement.

Short waves, such as the color _____, are bent more than long waves.

The color _____ has the longest wavelength.

Another name often used for the spectrum is the _____.

If a rug absorbs all rays except _____, it will appear blue.

Why does the spectrum appear as a band of colors? Light acts like **solid liquid gas wave** as it travels. When it hits a substance it **can can not** pass through that substance is called a new **medium transmitter**. When the light passes through it **does does not** change speed. **All some none** of the wavelengths of light bend more than other and break into the spectrum.

Why is a brown car in the sunshine hotter to the touch than a white car? **White brown** reflects all of the colors, since **white brown** reflects very little of the light the energy is absorbed. Since **white brown** absorbs the energy it is turned into **reflected light heat**.