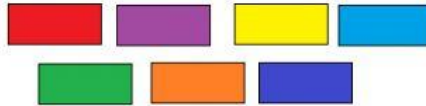


Light and Color

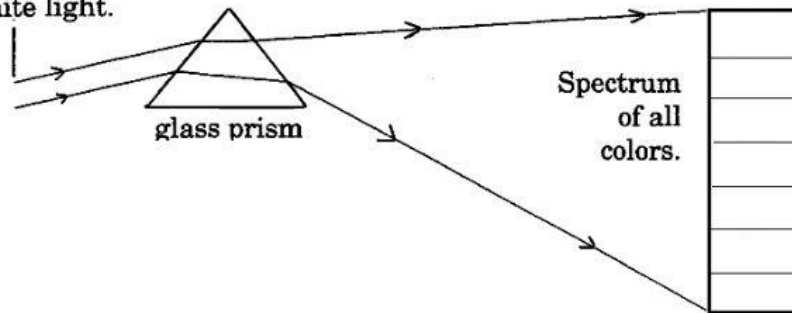
Drag and drop the colors to their correct position on the spectrum, longest to shortest wavelength.



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

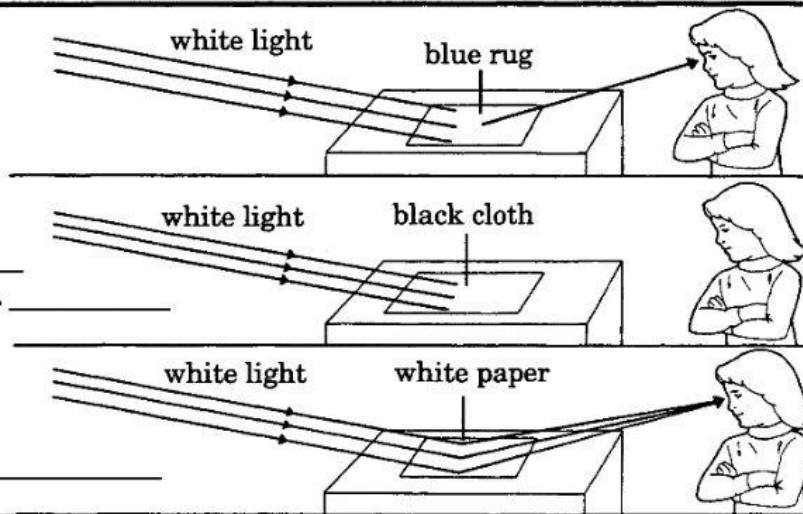


- A. _____
- B. _____
- C. _____
- D. _____
- E. _____
- F. _____
- G. _____

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**.