Brain POP GRAPHIC ORGANIZER ACTIVITY

Name: .....

Date: .....

SCIENCE > ENERGY > COLOR

"BECAUSE" CHART

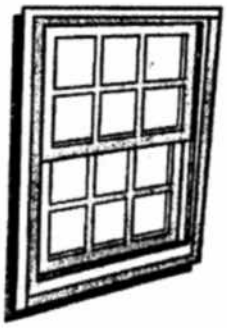
Objects reflect and absorb electromagnetic waves, which our eyes interpret as color. Explain why the following objects appear certain colors.

A PIECE OF PAPER APPEARS WHITE	**BECAUSE** →	all the colors of white light are being reflected.
A PAINTED WALL APPEARS YELLOW	**BECAUSE** →	pigment in the paint absorbs all the colors of white light except yellow light which is reflected
A LEATHER JACKET APPEARS BLACK	**BECAUSE** →	all the colors of white light are being absorbed. No colors of light are reflected so we see black (no light)
A SPORTS CAR APPEARS RED	**BECAUSE** →	all the colors of white light are being absorbed by the pigment except red which is reflected so we see the car as red

. Describe what happens to light that strikes each of these objects.

Black Book

Mirror



Window

Light behaves differently depending on the object strikes. Light can be transmitted, absorbed or reflecte The book is opaque. So when light strikes the book, it cannot pass through it. Since the book is the color bla all the light that strikes it will be absorbed by the book None of the light will be transmitted or reflected. The mirror is also opaque, but it is smooth and shiny so all the light that strikes it will be reflected. For example, light reflecting from a person's face standing in front o the mirror is reflected back into the person's eyes. As result the person sees his reflection. Lastly, the glass panes of the window are transparent, so when light strikes the window, the light transmits through the gla One is able to see the images clearly on the other side the window. So light will transmit through transparent objects and will be absorbed or reflected by opaque objects. The colors of light that an object reflects determines the color we see. If an object appears black