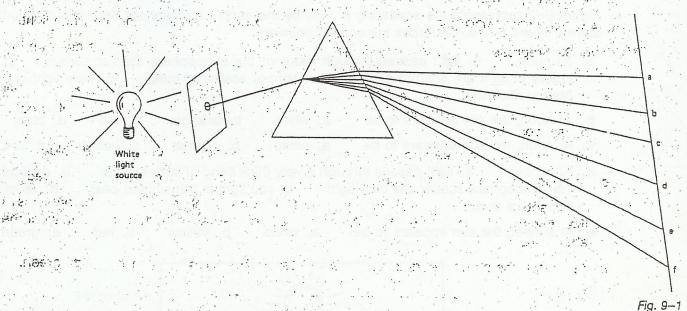
1 . 6:

CHAPTER 9: COLOR

1. Fig. 9-1 shows a beam of white light refracted by a prism. Use this diagram to complete the sentences below.



- a. Each of the letters a through f represents a ______ of visible light.
- b. The glass prism bends a light ray by an amount that depends on the of the light ray.
- c. The color of light ray a, which is bent the least, is _
- d. The color of light ray f, which is bent the most, is _
- e. All the bands of color are called the
- 2. Fill in the blanks with the correct words and answer the following questions.
 - a. White light shines on a yellow notebook. The notebook appears _ What colors are absorbed? ____
 - b. Yellow light shines on a white notebook. The notebook appears What color is reflected? __
 - c. Blue light shines on a yellow shirt. The shirt appears _. What color is absorbed?
 - d. Blue light shines on a blue-green blouse. The blouse appears
 - e. Green light shines on an orange. The orange appears

CHAPTER 9 REVIEW continued

- 3. Complete the following sentences by unscrambling the letters.
 - a. The light that a laser emits is described as being THENCORE
 - b. This means the light has a single QUERFYNEC
 - c. Red, green, and blue are the MIRRAPY ______ colors of light.
 - d. Any two MOMTACRELPENY ______colors combine to produce white light.
- 4. Figure 9-2 represents the scattering of light by the earth's atmosphere. Use this diagram to answer items a to e. Underline the correct answers.
 - a. At noon,
 a. light passes through more of the atmosphere than at sunset
 b. all colors of light are scattered
 c. blue light is scattered most
 d. blue light is completely absorbed.
 - b. At noon, the sky appears to be
- a. white
- b. orange
- c. red. d.
 - d. blue.

- c. At noon, the sun appears to be
- a. white
- b. orange
- c. yellow
- d. red.
- d. At sunset, a. light passes through a very thick band of atmosphere b. particles in the atmosphere scatter the blue light c. red light is transmitted best d. all of the above are true.
- e. At sunset, the sun appears to be
- a. white
- b. yellow
- c. red
- d. green.

