CHAPTER 7
REINFORCEMENT

What is Light? - Part 1

BLM 7-1

Goal • Use this page to review terms introduced in section 7.1 of Chapter 7.

What to Do Fill in the spaces in the sentences below with the words that fit best. Choose from the list of words at the end of each section.

| A.V | Vhat is Light? | | | | | | | |
|------------------------|--|-------------------------|--------------------------------|----------------------|--|--|--|--|
| 1. | Light that spreads out from the Sun transfers energy to the Earth by | | | | | | | |
| | Light is produced from other types of energy. Chemical energy is transformed into light energy when you strike a Electrical energy is transformed into light in a is transformed into light. | | | | | | | |
| 3. | Sunlight is a | light | source. A light bulb is a | ın light source. | | | | |
| | | | light energy nuclear energy | match natural | | | | |
| B. Properties of Light | | | | | | | | |
| | 1. A dark surface gets when light energy hits it. The light is transformed into | | | | | | | |
| ۷. | . Solar cells can change light energy into A light's determines how much energy the light carries. | | | | | | | |
| | Two natural ligh | | and | Two artificial light | | | | |
| elec stre | trical energy etlights | intensity television | lightning thermal energy | the Sun warm | | | | |
| C. 1 | Incandescence | | | | | | | |
| | 1. An ordinary light bulb is an light source. An incandescent light source becomes so that it glows energy is changed into energy. | | | | | | | |
| | 2. If an object gets hot enough, it emits visible energy. The part of an incandescent bulb that heats up and glows is called the | | | | | | | |
| elec | trical | | hot | | | | | |

CHAPTER 7 REINFORCEMENT

What is Light? - Part 2

BLM 7-2

Goal • Use this page to review terms introduced in section 7.1 of Chapter 7.

| | | | | • | | |
|---------------------------------|--|--|---|--|--|--|
| Wh | | es in the sentences l Is at the end of each | | ds that fit best. Choose from | | |
| A. : | Fluorescence | | | | | |
| 1. | The long tubes in overhead lights and the tubes that spell the names of stores and restaurants are examples of light sources. These do not work the same way as bulbs, which have filaments that heat up and glow. | | | | | |
| 2. | 2. In fluorescent bulbs energy is absorbed by the particles of mercury inside the tube. These particles give off light (a type of light you can't see) which hits the white powder on the inside of the bulb. The phosphor particles give off light. | | | | | |
| 3. | and their contents are they don't get, | | | | | |
| cc | • | y | | fluorescent | | |
| efficient hot ultraviolet | | incandescent | _ | | | |
| В. | Phosphoresce | nce | , | | | |
| 1. | 1. Phosphorescence is similar to fluorescence, except that the particles that absorb the do not release it immediately. There is a An example is a toy ball that after you hold it near a bright for a while. | | | | | |
| del | ay | energy | glows | light | | |
| .C. | Chemilumines | scence and biolum | inescence | | | |
| 1 | Energy release cence and biol | ed in uminescence. The t | _ reactions provides term chemilumines | scent or fluorescent light. If the energy for chemiluminescence refers to To the produced by | | |

artificial

organisms.

chemical

light

living