



Date \_\_\_\_\_ Period \_\_\_\_\_ Name \_\_\_\_\_

**CHAPTER**  
**19 Study Guide**

**Interference and Diffraction**

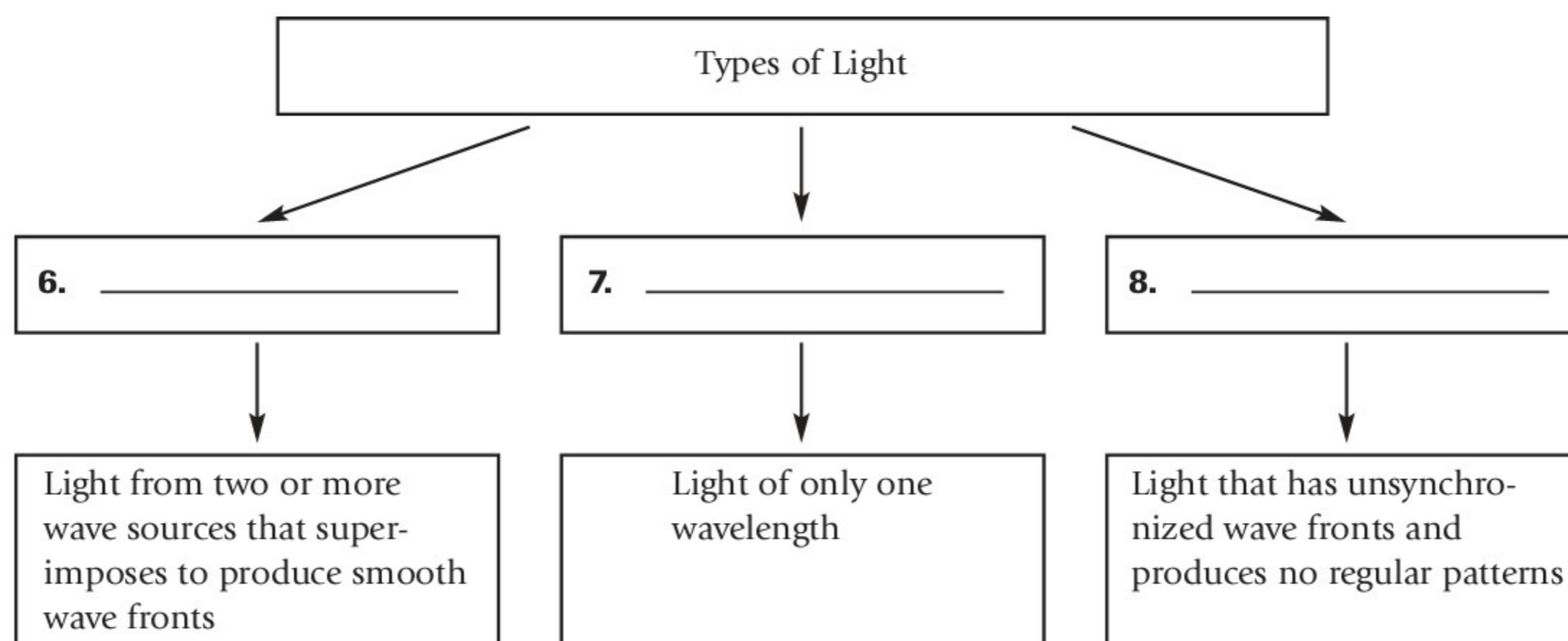
**Vocabulary Review**

Write the term that correctly completes the statement. Use each term once.

- |                      |                        |
|----------------------|------------------------|
| diffraction grating  | Rayleigh criterion     |
| diffraction pattern  | thin-film interference |
| interference fringes |                        |

- \_\_\_\_\_ results in a spectrum of colors caused by constructive and destructive interference of reflected light waves.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a device made up of many single slits that diffract light and form a pattern that results from the overlapping of single-slit diffraction patterns.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a pattern that results from constructive and destructive interference of Huygens' wavelets.
- \_\_\_\_\_ If the central bright spot of a star's image falls on the first dark ring of a second star's image, the two images are at the limit of resolution. This statement is the \_\_\_\_\_.
- \_\_\_\_\_ A pattern of bright and dark bands called \_\_\_\_\_ is produced by coherent light passing through two slits and overlapping on a screen.

Use the terms incoherent light, coherent light, and monochromatic light to complete the following concept map.



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