

Date _____ Period _____ Name _____

19 Study Guide

In your textbook, read about determining wavelength with diffraction gratings. Circle the letter of the choice that best completes the statement or answers the question.

18. For a diffraction grating, the wavelength equals _____
 a. $\sin \theta$ b. $\sin \theta \lambda$ c. $\lambda/\sin \theta$ **d. $\lambda/\sin \theta$**
19. When monochromatic light is used with a diffraction grating, what is produced?
 a. no diffraction pattern
 b. no central band, two bright bands to the left and right
c. a bright central band with bright bands to the left and right
 d. a dark central band with white bands to the left and right
20. How do the screen locations of the red lines produced by red light change on a diffraction grating compared with the locations of the red lines produced by white light?
 a. These produced by the red light are closer.
 b. These produced by the red light are to the left.
 c. These produced by the white light are closer together.
d. They are in the same places.
21. The size of the angle between bright bands is approximately equal to _____
 a. d/λ b. λ/d **c. λ/d** d. d/λ
22. Which quantity is not directly from the calibrated base of a grating spectrometer?
a. θ b. λ c. d d. r

In your textbook, read about telescopes and microscope resolution.

For each of the statements below, write true or false in the indicated space to make the statement true.

23. _____ **wider** Decreasing the width of a lens used in a telescope causes the diffraction pattern to become narrower.
24. _____ **true** Two stars will be just resolved if the central bright band of one star falls on the first dark band of the second star.
25. _____ **narrower** The diffraction pattern formed by blue light in a microscope is wider than that formed by red light.
26. _____ **microscopes only** Using a larger lens is practical in reducing effects of diffraction on the resolving power of both microscopes and telescopes.
27. _____ **true** White light would be more useful than green light in reducing diffraction patterns formed in a microscope.
28. _____ **more spread out** Telescope diffraction causes light from a star to appear brighter.

Date _____ Period _____ Name _____

20 Study Guide

Use with Chapter 20.

Static Electricity

Vocabulary Review

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

- | | | |
|------------------------|----------------|-------------------|
| charged | contact | elementary charge |
| charging by conduction | Coulomb's law | insulators |
| charging by induction | electroscope | neutral |
| conductors | electrostatics | plasma |
- _____ **insulators** Materials through which charges will not move easily are electrical _____.
 - _____ **electrostatics** The study of electrical charges that can be collected and held in one place is _____.
 - _____ **electroscope** An _____ is a device used to determine charge.
 - _____ **elementary charge** The magnitude of the charge of an electron is the _____.
 - _____ **charging by induction** Separating the charges in an object without touching the object is _____.
 - _____ **conductors** Materials such as metals are electrical _____. They allow charges to move _____.
 - _____ **neutral** The positive charge in _____ objects exactly balances the negative charge.
 - _____ **charging by conduction** Giving a neutral body a charge by touching it with a charged body is _____.
 - _____ **Coulomb's law** The magnitude of the force between charge q_1 and charge q_2 , separated by a distance d , is proportional to the magnitude of the charges and inversely proportional to the square of the distance. This is a statement of _____.
 - _____ **contact** The _____ is the SI standard unit of charge.
 - _____ **plasma** An _____ is a gaseous state of negatively charged electrons and positively or negatively charged ions.
 - _____ **charged** An object that rubbles, sticks, or attracts after rubbing is said to be _____.

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Eugene Hecht



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