Class

Date

Skills Worksheet

Concept Review

4. spiral galaxy

6. irregular galaxy

7. elliptical galaxy

8. main-sequence

9. apparent magnitude

stage

10. quasar

5. absolute magnitude

| in the s | • | etter of the description that best matches the term |
|----------|--------------------|---|
| | 1. big bang theory | a. star group that can be elongated like a stretched-out football |
| | 2. constellation | b. the brightness a star would have at a |
| | 3. light-year | distance of 32.6 light-years from Earth |

- c. the time in the life of a star when it generates energy by the fusion of hydrogen into helium in its core
 - d. an extremely bright area located in the center of some galaxies
 - e. the distance light travels in a single year
 - f. star group that has low mass, no particular shape, and is rich in dust and gas
 - g. the theory that all matter and energy was compressed into a small volume and then exploded billions of years ago
 - h. a fixed pattern of stars and the region of space around it
 - i. star group with a nucleus of bright stars and flattened arms that spiral around the nucleus
 - j. the brightness of a star as seen from Earth

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

| each | state | ment o | r best | answers | each | question. | | |
|------|-------|--------|--------|-----------|-------|----------------|--|--|
| | 11 | Which | etare | have left | the n | nain sequence? | | |

- a nebula nuclei nlasma
 - a. nebula, nuclei, plasma
 - b. giants, supergiants, white dwarfs
 - c. quasars, pulsars, constellations
 - d. planets, galaxies, nova

| | | | • | |
|---------|----------------|--------------|--------------|------------|
| 12. How | far away is th | e closest ga | alaxy to the | Milky Way? |

- a. 17,000,000 miles
- b. 5 million light-years
- c. 170,000 light-years
- d. 5 billion kilometers

| Name _ | Class | Date |
|------------------|--|---|
| Conc | ept Review continued | |
| | 13. Why are scientists able to use spectars? a. because all stars have the same b. because every chemical elements do a d. because colors and lines in the | composition as Earth It has a characteristic spectrum not have characteristic spectra |
| | 14. What did Hubble discover that indexpanding? a. Only stars in the main sequence b. Galaxies are moving closer to lead to the control of the c | e are moving away from Earth. Earth. ed toward the blue end. |
| <u> </u> | 15. What type of star may become a pa. a neutron starb. the sun | oulsar? c. a white dwarf d. a nebula |
| · | 16. What indicates the surface tempera. the star's massb. the star's agec. the star's distance from Earthd. the star's color | rature of a star? |
| · · · · · · | 17. What marks the transition of a pro- a. the end of nuclear fusion b. the beginning of nuclear fusion c. the beginning of nuclear fission d. the end of nuclear fission | n |
| <u> </u> | 18. Which of these is considered to be a absolute zero. b. the existence of black dwarf story commic background radiation d. the asteroid belt. | |
| | 19. What is a nova? a. a main-sequence star b. a black hole c. a star that suddenly becomes b d. a nebula | orighter. |
| | 20. Why do stars appear to move in to a. because of the movement of E b. because of the big bang c. because they are actually moved. because of the movement of the control of the cont | ing closer to Earth |