Name _____ Date _____ Bell _____

Unit 3: Lesson 4- What are Stars and Galaxies?

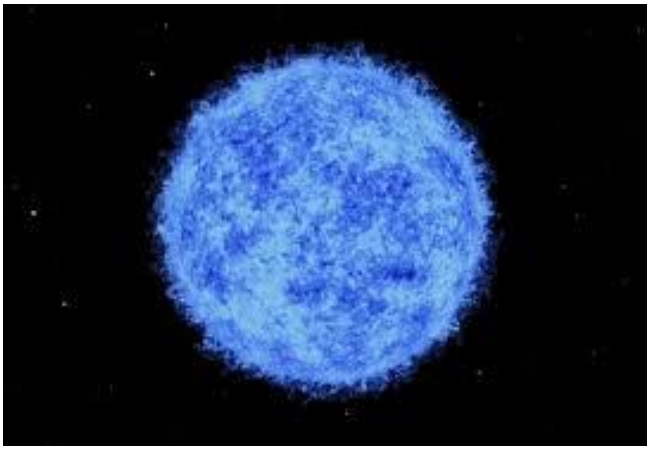
Vocabulary

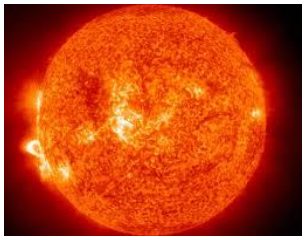
1. Astronomy (page 144)-
   _____
   _____
   _____

2. Star (page 144)-
   _____
   _____
   _____

3. Universe (page 146)-
   _____
   _____
   _____

4. Galaxy (page 147)-
   _____
   _____
   _____





Twinkling Stars Page 144-145

1. What is astronomy?

   _____
   _____

2. Who are astronomers?

   _____
   _____

3. What tool does an astronomer use to study space?

   _____

4. What might astronomers learn about stars by studying them through telescopes?

   _____

5. What are stars?

   _____
   _____

6. What is an example of a star? _____
7. How can distance from Earth affect the way a star looks?

   _____

8. How does a star form?

   _____
   _____

9. What characteristics do scientists use to classify stars?

   _____

10. What does the color of a star tell us about them?

    _____

11. Which stars are the hottest? Which stars are the coolest?

    _____

12. What are some examples of different sizes of stars?

    _____

13. What kind of star is our sun? _____
14. The largest stars are the: _____
15. A stars brightness is related to:

    _____

16. Why might a diagram be useful in classifying stars?

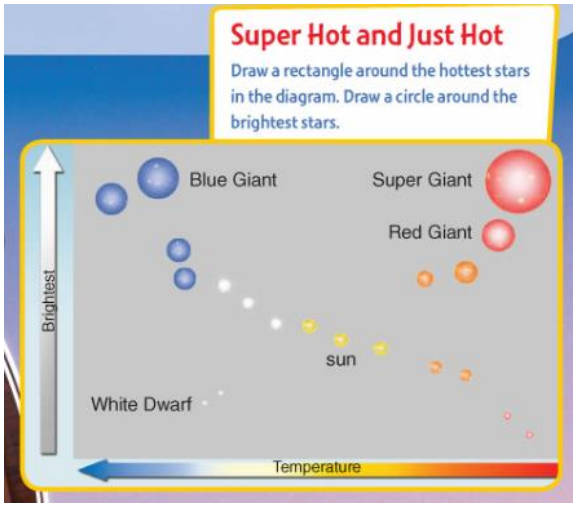
    _____
    _____

17. What conclusion can you draw about how size and brightness of stars are related?

    _____
    _____
    _____
    _____

18. What kind of star would be the hottest and brightest?

    _____



Going Galactic Pages 146-147

19. What is the Universe?
    _____
20. What are galaxies?
    _____
    _____
21. What function do you think gravity plays in galaxies?
    _____
    _____
22. How many galaxies are in the universe?
    _____
23. What is the name of our galaxy?
    _____
24. Describe the position of the solar system within our galaxy?
    _____
    _____
25. What is the name of the telescope that NASA uses to look at galaxies in space?
    _____
26. Who was Edwin Hubble? What characteristic did he use to classify galaxies?
    _____
    _____
27. What are Spiral Galaxies?
    _____
    _____
28. What are Barred Spiral Galaxies?
    _____
    _____
29. How is a barred spiral galaxy different from a regular spiral galaxy?
    _____
    _____
30. What kind of galaxy is the Milky Way?
    _____

More Types of Galaxies and Cosmic Crashes Page 148-149

31. What are Irregular Galaxies?

    _____
    _____

32. What are Elliptical Galaxies?

    _____
    _____

33. What percentage of galaxies are irregular galaxies? _____
34. What percentage of galaxies are elliptical galaxies? _____
35. What percentage of galaxies are spiral galaxies? _____
36. Why do you think elliptical galaxies are brightest toward the center?

    _____
    _____

37. How are elliptical galaxies different from irregular galaxies?

    _____
    _____

38. Why do galaxies collide?

    _____

39. What are a few things that happen when galaxies collide?

    _____
    _____
    _____
    _____