Chapter 9.2 Scavenger Hunt. (7th) Date _____

Last Name _____ , First _____ per ___

Pre- read chapter 9.2, starting on page 325 and find the answers to the scavenger hunt clues.

1. What is the **title** of chapter 9.2? _____

2. List the 9 **key terms** in section 9.2 page 325
   a. _____ f. _____
   b. _____ g. _____
   c. _____ h. _____
   d. _____ i. _____
   e. _____

3. **California Standards Focus -4 Green Keys**
   a. Complete the three standards focus questions.
      i. How do cells of _____ differ from those of _____?
      ii. What do _____ need to _____
      iii. Under what _____ do bacteria need to _____ and _____ ?
      iv. What _____ roles do bacteria play in _____ lives ?

4. **Lab Zone Standards Warm up on page 563**
   a. What is the question in this investigation? _____
      _____
   b. What do the beans represent? _____
   c. What will you be calculating? _____

5. **Red and Blue headings ch9.2** Copy the red and blue headings in outline form.
   I. _____
      a. _____
      b. _____
   II. _____
      a. _____
      b. _____
   III. _____
      a. _____
      b. _____
      c. _____
   IV. _____
      a. _____
      b. _____

6. **Figure 6 on page 326 *Bacteria Cell Structure***
   a. What structures does the salmonella bacterium use to move? _____

7. **Green Key page 326**
   a. What is a prokaryote _____
   b. Are bacteria prokaryotes? _____

8. **Define the Highlighted word on pages 326**
   a. Flagellum _____
   _____

9. **Figure 7 "Obtaining Food"**
   a. How do heterotrophic bacteria break down food? _____
   _____
   b. How do autotrophic bacteria make food? _____
   c. How do autotrophic bacteria in hot springs make their food? _____
   _____

10. **Lab Zone Try This Activity page 327 "Bacteria for Breakfast"**
    a. In what substance would you be looking for bacteria? _____

11. **Define the Highlighted words on pages 328 and 329**
    a. binary fission _____
    _____
    b. asexual reproduction _____
    _____
    c. sexual reproduction _____
    _____
    d. conjugation _____
    _____
    e. endospore _____
    _____

12. **A Green Key page 328**
    a. What conditions do bacteria need to thrive and reproduce? _____
    _____
    _____

13. **Figure 8 "Bacterial Reproduction"**
    a. Between the two methods of reproduction binary fission and conjugation, which method would produce two identical cells ? _____
    b. What is transferred between bacteria cells during conjugation? _____
    _____

14. **Math Analyzing Data page 329 "Population Explosion"**
    a. What variable is being plotted on the x-axis of the graph? _____
    b. What variable is being plotted on the y axis? _____
    c. According to the graph, how many cells are there after 20 minutes? _____
    d. after 1 hour? _____
    e. after 2 hours? _____
    f. Describe the pattern you see in the way the bacterial population increases over 2 hours. _____

    g. Which type of reproduction method are the bacteria using? _____

15. **Figure 9 "Endospores"**
    a. When could these bacteria begin to grow and multiply _____
    _____

16. Green Key page 330
    a. What 3 roles do bacteria play in nature as explained in the green key?
    i._____
    ii _____
    iii. _____

17. **Highlighted word on page 331** *(define.*
    a. pasteurization _____
    _____
    _____

18. **Science and History**. Write a summary about the history of bacteria in foods.

_____
_____
_____
_____
_____
_____
_____
_____
_____

19. **Highlighted word on page 332** *(define*
    decomposers _____
    _____
    _____

20. Figure 10 "Environmental Recycling"
    a. What kind of bacteria are at work recycling chemicals in leaves? _____
    _____

21. Figure 11 "Environmental Cleanup"
    a. How do scientists use the bacteria *Ochrobacterium anthropi* ? _____
    _____

22. Figure 12 "Bacteria in Digestion"
    a. What do bacteria living in your intestines help you do? _____

Now go back and read the chapter carefully and see if you can answer the questions in the section 9.2 assessment.