

1. Review the last study guide. You don't get to forget what you already learned.
2. Define growth.
3. How do bacteria reproduce?
4. Diagram a typical bacterial growth curve. What happens at each phase?
5. What is the doubling time (generation time) of *E. coli in vivo* and *in vitro*?
6. How do you measure bacterial growth?
7. What factors affect bacterial growth?
8. Define the following terms: psychrophile (note the spelling), mesophile, thermophile, hyperthermophile, acidophile, neutrophile, alkaliphile, barophile, halophile, halotolerant.
9. What methods are used to inhibit **or** kill bacteria?
10. Define sterilize, sanitize, disinfect and antiseptic.
11. What are antibiotics?
12. What do bacteriostatic and bacteriocidal mean?
13. What are the properties of an ideal antibiotic?
14. What are the various modes of action of antibiotics?
15. How do bacteria become resistant to antibiotics?
16. What are the various modes of resistance?
17. What is causing increased antibiotic resistance?
18. What physiological problems are associated with antibiotic use?
19. What class of antibiotic does penicillin belong to? How does it work and what type of bacteria is it most effective against?
20. How many bacterial species are estimated to be present in the human mouth?
21. How many archaeal species in the mouth?
22. Archaea are associated with what disease?
23. What areas of the body are colonized? Which are not colonized?
24. What phyla of bacteria are associated with human skin.
25. How are humans colonized?