Microbiology Review

Name: Block:

Vocabulary you should know

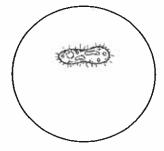
Aerobic

Prokaryote Eukaryote Bacteria Archeae Monera	Pillus (Pilli) Flagellum (Flagella) Nucleoid Capsule Plasmid	Methanogen Halophile Thermophile Coccus Bacillus	Diplo-	Photoautotro Chemoautotro Heterotroph Decomposer Pathogen	•	Nitrogen-fixing Sex Reproduction Binary fission Conjugation Transformation
Capsid	Base Plate Protei	n Sheath	Tail Fibre	Spike	Collar	Transduction

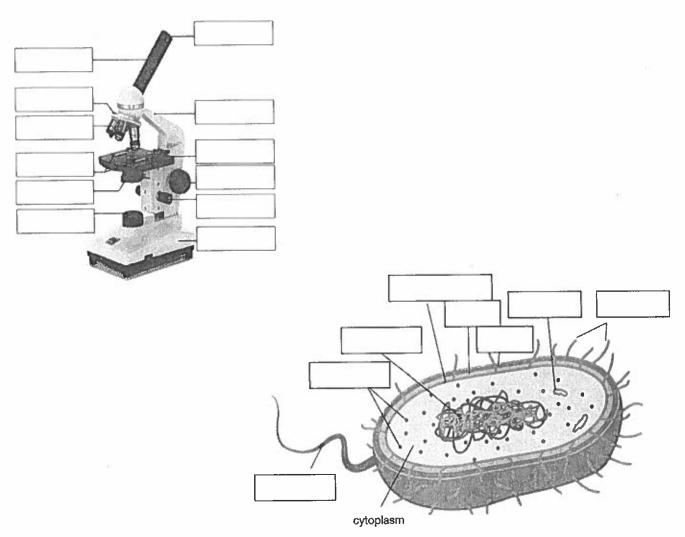
Questions you should be able to answer

Anaerobic

- 1. What are the 3 domains of life and give an example of each?
- 2. Compare and contrast prokaryotes and eukaryotes?
- 3. Compare and contrast archaea and bacteria?
- 4. What are the 3 types of archaea? Describe each of them briefly.
- 5. What are 3 ways that bacteria benefit us?
- 6. How do bacteria have sex?
- 7. How do bacteria reproduce?
- 8. What's the purpose of a capsule?
- 9. Which types of archaea are aerobic and which are anaerobic?
- 10. How do bacteria obtain their energy?
- 11. How can bacteria be categorized into different groups?
- 12. What are the 3 types of bacterial shapes and growths?
- 13. What is the order of chemicals/dyes in a Gram Stain procedure?
 - a. What do each of the chemicals do in a Gram Stain procedure?
- 14. What magnification is the ocular lens?
- 15. What magnification are the objective lenses?
- 16. What is the total magnification under low, medium, and high powers?
- 17. What characteristics make viruses living? What characteristics make them non-living?
- 18. What are the steps of viral attack in a lytic cycle?
 - a. What are the steps of viral attach in the lysogenic life cycle?
- 19. How do vaccinations work?
- 20. What are the different body's defenses against invaders?
- 21. Why do people get "sick" (runny nose, sneeze, cough, vomit etc.)
- 22. Why do you not get "sick" by the same virus?
- 23. How do viruses pick their host cell?
- 24. What king of cells eat and destroy viruses?
- 25. Calculate the actual size of the following specimen under medium power.



<u>Diagrams</u>



Structure of bacteriophage

