

Microbiology Unit Test Study Guide

Your Microbiology Unit Test will be on: _____

Prescribed Learning Outcomes: B1b, D1e, E1a, E1b, E1c, E1d, E2a, E2b, E2c, E3a, E3b, E3c, E4b, E4c

How you will be asked to demonstrate the PLOs for this unit:

Please be aware that all notes, homework, activities, etc. completed throughout the course of this unit will serve as study material for your test.

- differentiate between prokaryotic & eukaryotic cells
- compare photosynthesis and cellular respiration in terms of the reactants, products, and chemical equations
- know the definitions of and be prepared to use/apply all vocabulary terms
- classify viruses as living and/or non-living
- describe and/or label the basic structure of a virus
- describe the role of the host cell in viral replication
- compare and contrast the lytic and lysogenic viral life cycles
- define/describe viral specificity and provide an example
- describe how the body defends itself against viral and/or bacterial infection
 - define/describe and provide examples of the body's non-specific defences
 - define/describe and provide examples of the body's specific defences
- provide examples of how to reduce the spread of disease
- describe how viruses can be inactivated
- list and describe the two characteristics of all monerans

- classify bacteria based on the following:
 - phyla
 - cell shape
 - cell wall composition
 - method(s) of obtaining energy
 - method(s) of respiration/fermentation
- list the methods of bacterial movement (i.e. motility)
- describe the methods of reproduction that monerans use
- provide examples of diseases that bacteria can cause
- discuss the beneficial roles of bacteria
- list the functions of a streak plate
- describe how bacteria evolve to become resistant to antibiotics
- describe how bacteria prevent the action of antibiotics