

Virus & Bacteria Test Outline (Life Sciences 11)

SUMMARY:

1. Know the different structures of a virus.
2. How do viruses reproduce?
3. What are some characteristics of Kingdom Archaeobacteria and Eubacteria.
4. What is gram staining?
5. How do bacteria reproduce asexually? Sexually?
6. What do bacteria look like? How do they move around?
7. What are some different ways in which bacteria can obtain energy/nutrients?
8. In what ways are bacteria helpful and harmful to us?

STRUCTURE OF TEST:

50% multiple choice & 50% short answer questions. Most likely approximately 30 questions.

Focus on learning key vocabulary so that you can recognize answers quickly.

VOCABULARY:

(Disclaimer: This is not meant to be an exhaustive list. Vocabulary words may appear on the test that are not in this list.)

- Virus
 - o Gram-negative
- Capsid
 - o Peptidoglycan
- *Virus structures you should know:*
 - o Helical
 - o Polyhedral
 - o Enveloped
 - o Bacteriophage
- Lytic & Lysogenic cycle
- Bacteria
 - DNA
 - Binary fission
 - Sexual Reproduction
 - o Conjugation
 - o Transformation
 - o Transduction
 - Flagella (singular: flagellum)
 - Photoautotroph
 - Chemoheterotroph
 - Obligate aerobes
 - Facultative anaerobes
 - Obligate anaerobes
 - Antibiotics
 - Antibiotic resistance
- Cocci
- Bacilli
- Spirillum
- Staphylo
- Strepto
- Gram-staining
 - o Gram-positive

PRIMARY STUDY MATERIAL:

- In-class notes
 - o Viruses Notes
 - o Virus Replication Worksheet
 - o Characteristics Of Bacteria Notes (Chapter 17.2)
 - o Bacteria Characteristics Part II (Chapter 17.2)
- Optional: Textbook chapter 17 (note: uses some different terminology and is a bit outdated. If something is in the textbook that is not in the notes handouts, it is not testable.)