***BIOLOGY 11 UNIT OUTLINE***

UNIT 5: MICROBIOLOGY

A. Chapter 17: Viruses & Bacteria pp. 354-379

B. Appendix C: Care & Use of the Microscope

*Content:*

*It is expected that students will know the following:*

Viruses

• definitions of living vs. non-living

• basic structure of viruses

• viral reproduction (lytic and lysogenic cycles)

• effects of viruses on organisms

 Archaebacteria & Eubacteria (Monera)

• unifying characteristics

• structure and function of bacteria

• evolutionary trends

*Vocabulary:*

Viruses: antibody, antigen, bacteriophage, capsid, DNA, fibrils, host cell, lysogenic cycle, lytic cycle, pathogen/pathogenic, phagocytic white blood cell, prophage, retrovirus, RNA, tail sheath, vaccine, viral specificity

Microscopes: compound microscope, depth of field, diaphragm, electron microscope, field of view, gram positive, gram negative, light microscope, magnification, objective lenses, ocular lens, SEM, TEM

Archaebacteria & Eubacteria: aerobic, anaerobic, antibiotic, autotrophic, bacilli, bacteria, binary fission, capsule, cocci, conjugation, diplo, endospore, facultative aerobe, fermentation, flagella, gram +/-, methanogens, motility, mutate/mutation, nitrogen fixation, obligate aerobe, obligate anaerobe, pili, prokaryote, resistant/resistance, saprophytes, spirilla, stapho, strepto, thermophiles