

Day 18 – 4/21/14

Student Learning Objectives

By the end of this class you will be expected to understand:

- The nature and needs of different types of pathogens
- The major components of our body's defenses against infection
- The difference between the two branches of the immune system
- The process by which the body mounts an immune response to infection

Support videos:

- Bill Nye and Germs
 - <http://www.youtube.com/watch?v=GQFUziWNj2c>
- Immune System
 - <http://www.youtube.com/watch?v=CeVtPDjJBPU>

Assigned reading:

- Chapter 9: p190-207

Vocabulary:

- Pathogen
 - Antigen
 - Bacterium
 - Normal flora
 - Virus
- Lymph
 - Immune tissue
 - Spleen
 - Lymph node
 - Thymus gland
- Innate Immune System
 - Pathogen Barriers
 - Natural Killer Cell
 - Complement
 - Inflammation
- Phagocyte
 - Phagocytosis
 - Neutrophil
 - Macrophage
- Acquired Immune System
 - Antigen presentation
 - Cortisol
- Lymphocyte
 - Helper T Cell (CD4+)
 - Killer T Cell (CD8+)
 - B Cell
 - Antibody
 - Memory Cell
 - Active Immunization (Vaccine)
 - Passive Immunization