

CAM 7 Science Unit – Viruses & Bacteria

Section 1

- Why are viruses not considered living organisms?
- What shapes and sizes are viruses? What is a nanometer?
- What are the two parts of a virus, and what are their functions?
- How do viruses multiply?
- What is the difference between hidden and active viruses?
- What organisms do viruses infect?

- Key Terms:
 - virus
 - host
 - parasite
 - bacteriophage

Section 2

- Are bacteria prokaryotes or eukaryotes? What does this mean?
- What are the 3 basic cell shapes of bacteria?
- What are the basic cell structures of a bacterium & what do they do? (cell wall, cell membrane, cytoplasm, ribosomes, and flagellum)
- What are the two kingdoms of bacteria? How do scientists distinguish between them?
- What are the two ways in which bacteria reproduce?
- Are bacteria autotrophs, heterotrophs, or can they be either?
- What is respiration?
- Why do bacteria form endospores?
- Why are bacteria important to people and the environment?

- Key Terms:
 - archaeobacteria
 - eubacteria
 - cytoplasm
 - ribosome
 - flagellum
 - binary fission
 - asexual reproduction
 - sexual reproduction
 - conjugation
 - respiration
 - endospore
 - decomposer

Section 3

- What are the four ways diseases can spread?
- What can be done to treat viral infections? ... bacterial infections?
- What are vaccines and how do they help prevent infections?
- What are some ways you can protect yourself against infectious diseases?

- Key Terms:
 - infectious disease
 - toxin
 - antibiotic
 - vaccine