

CAM 7 Science Unit – Viruses & Bacteria

Section 1

Key Terms: virus host parasite
bacteriophage

- What is a virus?
- Do scientists classify viruses as living organisms? How are they similar to living organisms? How are they different?
- What is a parasite? What is a host? How are viruses similar to parasites?
- What shapes and sizes are viruses? What is a nanometer?
- Draw a diagram of a virus and label its parts (see p. 50).
- What are the two basic parts of a virus? What are their functions?
- How do viruses multiply?
- What is the difference between hidden and active viruses?
- What organisms do viruses infect?
- What is a bacteriophage?

Section 2

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

- Are bacteria prokaryotes or eukaryotes? What does this mean? Compare to other organisms.
- What are the 3 basic cell shapes of bacteria?
- Draw a diagram of a bacteria and label its parts (see p. 58)
- What are the following basic cell structures of a bacterium & what do they do:

cell wall	cell membrane
cytoplasm	ribosome
flagellum	
- What are the two kingdoms of bacteria? How do scientists distinguish between them?
- What are the two ways in which bacteria reproduce? Define binary fission & conjugation.
- How do bacteria feed? Are they autotrophs, heterotrophs, or can they be either?
- What is respiration?
- What is an endospore and why does it form?
- In what ways are bacteria important to the environment (Include its role as decomposer).
- Are bacteria usually beneficial or harmful to people? Explain.

Section 3

Key Terms: infectious disease toxin antibiotic
 vaccine

- 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?
- What are some causes, symptoms and treatment for the following infectious diseases: influenza, measles, rabies, food poisoning, strep throat and tetanus