



## Chapter 16

Prokaryotes

Bacteria

Peptidoglycan

Capsule, flagella, fimbriae

Endospores

Transduction, Transformation & Conjugation

Archaea

Binary fission

Mode of Nutrition

- Photoautotroph
- Chemoautotroph
- Photoheterotroph
- Chemoheterotroph

Cyanobacteria

Decomposer

Pathogen

Archaea

Halophile

Methanogen

Thermophile

Microbiome

Endosymbiosis

Algae, Seaweed

Phytoplankton

Dinoflagellates & Diatoms

Protozoans

Slime Molds

Amoeba

Flagella, Cilia & Pseudopodia



### Chapter 16 Study Questions

1. Compare and contrast Archaea and Bacteria. Include cell structure, nutrition and ecological roles (where they occur and what they do there).
2. Explain the endosymbiotic theory and how it relates to prokaryotes and eukaryotes today. Explain how it happened and the evidence that supports the theory.
3. Compare and contrast phytoplankton, seaweeds and protozoans. Use examples and include structure, nutrition and ecological roles (where they occur and what they do there).

