**Kingdom Archaea and Kingdom Eubacteria Glossary List**

1. **Cocci**: spherical shaped cell

(singular coccus)

2. **Bacilli**: rod shaped cell

(singular bacillus)

3. **Spirilli:** spiral shaped cell

4. **Aggregation**: grouping together of individual cells

5. **Methanogenesis**: an energy making process which produces methane as a by-product. Occurs in the digestive tract of animals or sediments of swamps.

6. **Photosynthesis:** a process which utilizes carbon dioxide, water and sunlight to make glucose

and a by-product called oxygen

7. **Heterotroph**: an organism that gets its nutrients and energy from consuming other organisms

8. **Aerobic:** presence of oxygen

9. **Anaerobic**: absence of oxygen

10. **Extremophiles**: an organism that lives in habitats characterized by extreme conditions.

Examples include: thermophiles (heat loving) in hot springs, acidophiles (acid loving) in

volcanoes and halophiles (salt loving) in the Dead Sea.

11. **Mesophiles**: an organism that lives in habitats characterized by moderate conditions.

Examples include: composter, soil and digestive system of organisms.

12. **Binary fission**: a method of asexual reproduction where a cell divides into two identical cells

13. **Conjugation**: a method of sexual reproduction where cells exchange plasmids

14. **Plasmids:** separate rings of DNA apart from the cell’s main chromosome

15. **Endospore**: a dormant bacterial cell able to survive for long periods during extreme

conditions. These conditions include: high temperatures, drying out and toxic chemicals.