

THE HISTORY OF LIFE

A. **Anaerobic Cells** (cells that do not use oxygen)

vs.

Aerobic Cells (cells that do use oxygen)

1st →

2nd →

WHY?

B. **Multicellular Organisms** (organisms that have many cells)

vs.

Unicellular Organisms (organisms that only have one cell)

1st →

2nd →

WHY?

C. **Eukaryotic Cells** (cells that have a nucleus and other membrane-bound organelles)

vs.

Prokaryotic Cells (cells that do not have a nucleus and membrane-bound organelles)

1st →

2nd →

WHY?

D. **Photosynthesis Using H₂O** (photosynthesis using water; creates oxygen gas)

vs.

Chemosynthesis Using H₂S (chemosynthesis using hydrogen sulfide)

1st →

2nd →

WHY?

E. **Fermentation** (a way to make energy when O₂ isn't available – only makes 2 ATP)

vs.

Cellular Respiration (a way to make energy using O₂ – makes 32 ATP!)

1st →

2nd →

WHY?

F. **Autotrophs** (organisms that do make their own food – photosynthesis)

vs.

Heterotrophs (organisms that do not make their own food)

1st →

2nd →

WHY?

G. **Asexual Reproduction** (reproducing by itself – only requires 1 parent)

vs.

Sexual Reproduction (reproducing with another organism – requires 2 parents)

1st →

2nd →

WHY?

H. **Domain Archaea** vs. **Domain Eukarya** vs. **Domain Bacteria**

1st →

2nd →

3rd →

WHY?