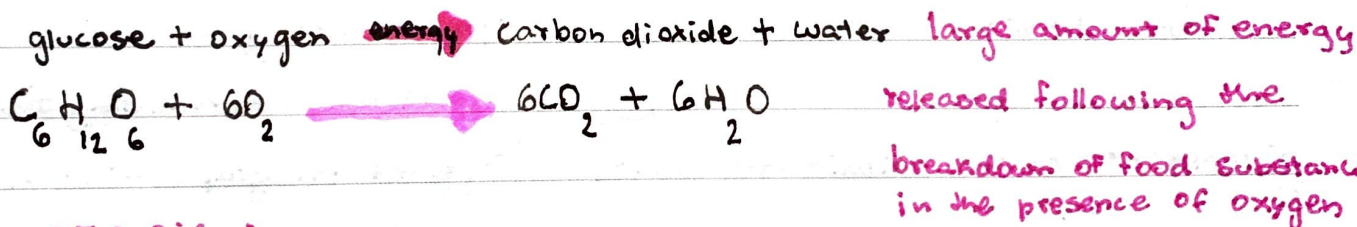


CELLULAR RESPIRATION

- Cellular respiration is the process where chemical reactions that break down nutrients molecules in living cells to release energy
- aerobic:** takes place in the mitochondria
- anaerobic:** takes place in the cytoplasm
- the cellular respiration must happen all of the time so the organism can survive
- the energy is used for:
 - muscle contraction
 - protein synthesis
 - cell division
 - active transport
 - growth
 - passage of nerve impulses
 - maintenance of body temperature
 - thermal
 - sound
 - kinetic
 - electrical

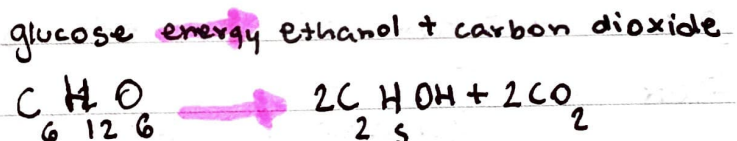
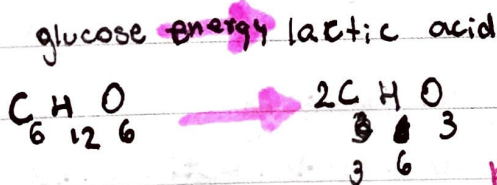
AEROBIC respiration



ANAEROBIC respiration

animal muscles

bacteria or yeasts



partial breakdown of glucose, small amounts of energy

ATP

Adenosine triphosphate

aerobic respiration - releases net of 36 ATP

anaerobic respiration - releases net of 2 ATP