

- ATP from glucose
- ATP is energy source for the cell
- takes place in plants and animals

## GLYCOLYSIS

- glucose
- occurs in cytoplasm
- breaks glucose into 2 pyruvic acids
- releases 2 ATP

## ANAEROBIC RESPIRATION & FERMENTATION

occurs in cytoplasm  
 does not use oxygen  
 produces ethanol or lactic acid  
 produces CO<sub>2</sub>  
 NO ATP

## AEROBIC RESPIRATION

occurs in mitochondria  
 requires oxygen  
 produces CO<sub>2</sub>  
 produces 36 ATP

AEROBIC RESPIRATION = 2 + 36 = 38 ATP  
 ANAEROBIC RESPIRATION = 2 + 0 = 2 ATP

