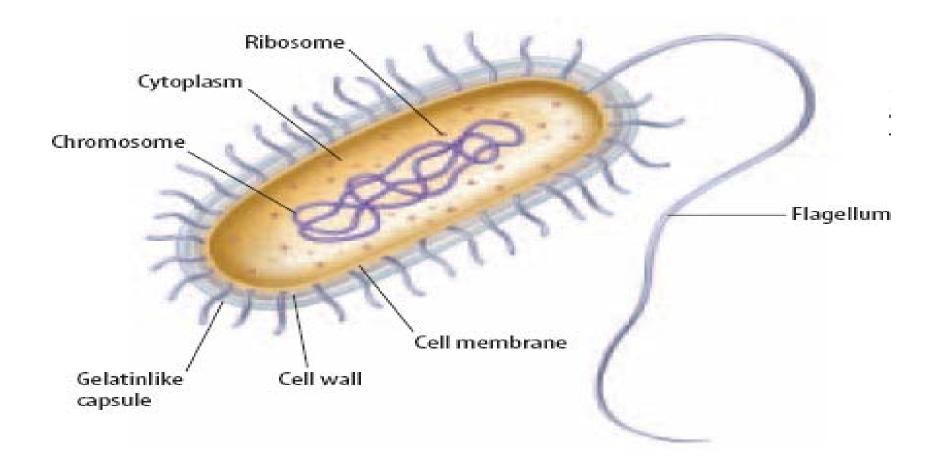
BIOLOGY VOCABULARY

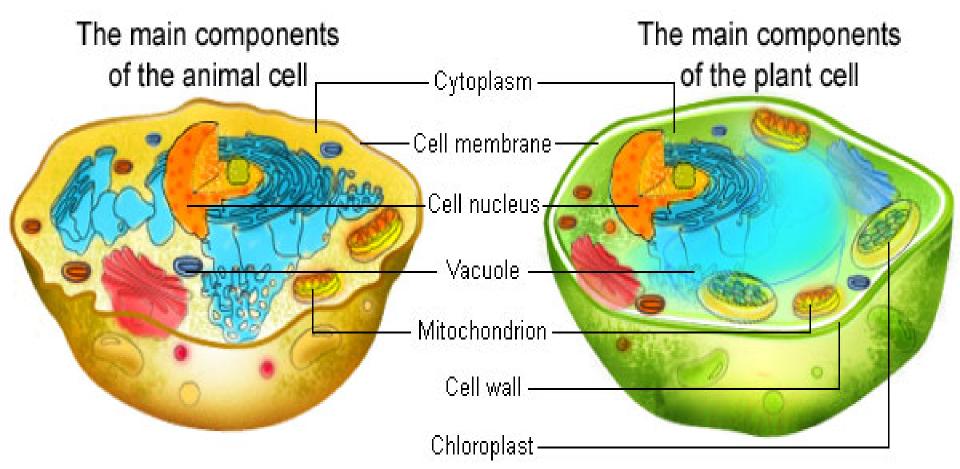
Prokaryote

•Have DNA and ribosomes, but they have no internal membranes! (They don't have a nucleus)

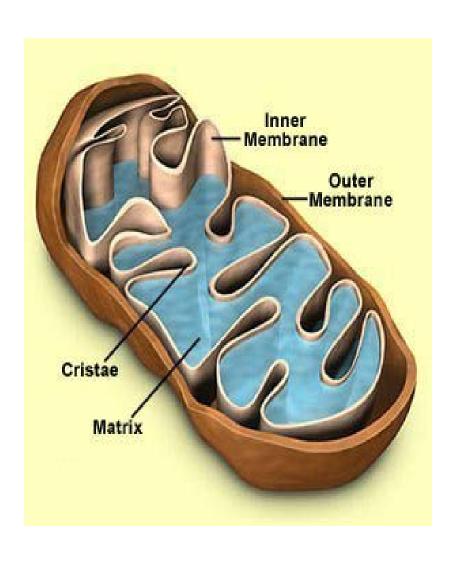


Eukaryotic

Have their DNA surrounded by a membrane. (They have a nucleus).



Mitochondria

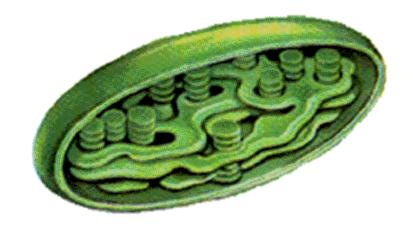


- "Powerhouse" of the cell
- Produces energy in the form of ATP
- Site of Aerobic respiration

Chloroplast

- Site of photosynthesis
- Plant cells ONLY

Contains the pigment chlorophyll



CELL TRANSPORT

Diffusion

Movement from high to low concentration

No energy required

Osmosis

Movement of water from high to low WATER concentration across a membrane

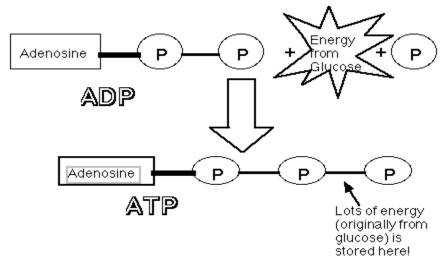
No energy required

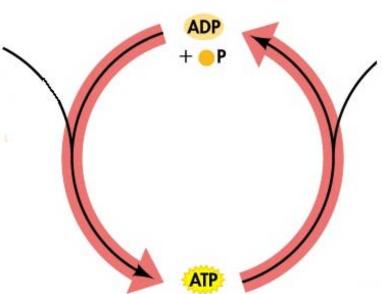
Active Transport

Movement from LOW concentration to HIGH concentration

USES ATP

ATP

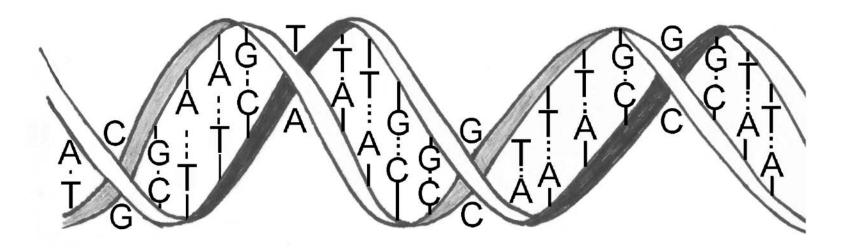




 Energy storing molecule

 Can be used for quick energy by the cell

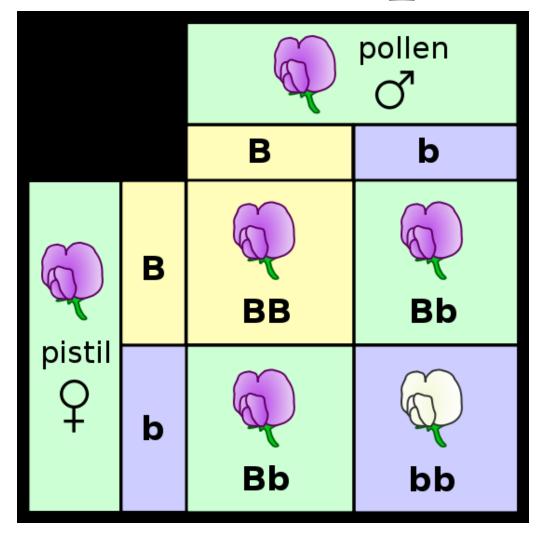
Base Pair Rule



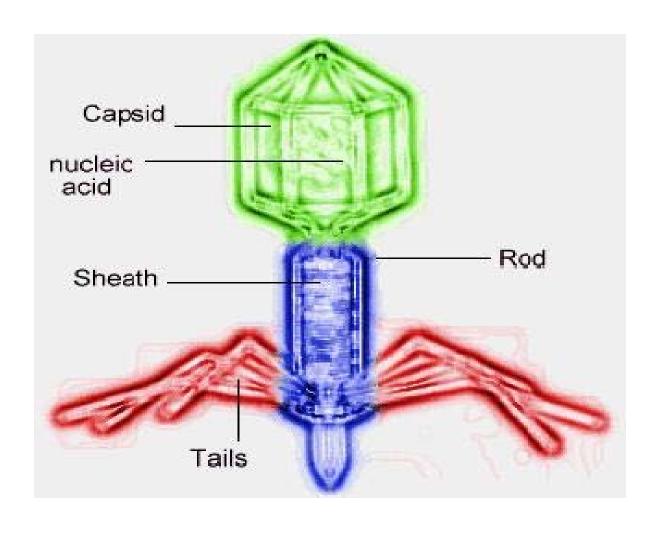
In DNA,

Adenine always pairs with Thymine Guanine always pairs with Cytosine

Punnett Square



Virus



BACTERIA

Can be killed by antibiotics

•Examples of disease caused by bacteria is strep throat.



Parasitism

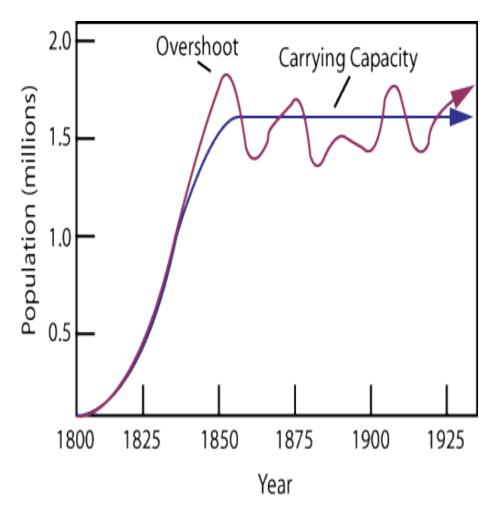


 PARASITE BENEFITS by getting food and shelter from the HOST

 This is good for the tick, but bad for the human.

Carrying Capacity

- Maximum number
 of individuals that an
 ecosystem can
 support
- Limiting factors:
 - Food availability
 - Competition
 - Disease
 - Predation
 - Natural Disasters



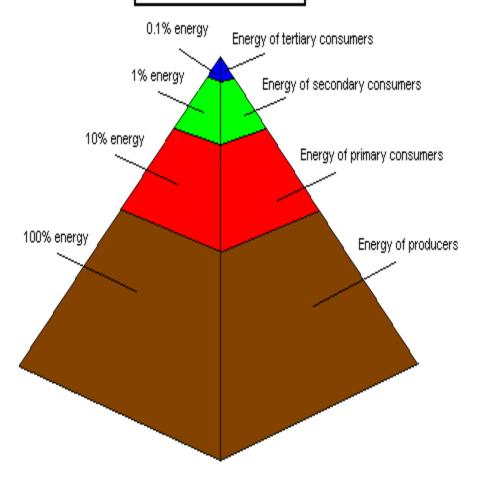
Trophic Levels

Steps in a food chain/web

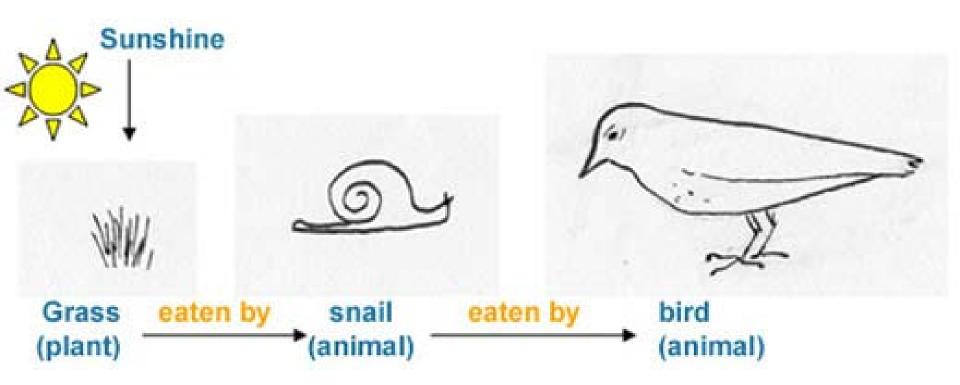
 Energy passes from one organism to another

 About 10% of the energy at one level passes to the next

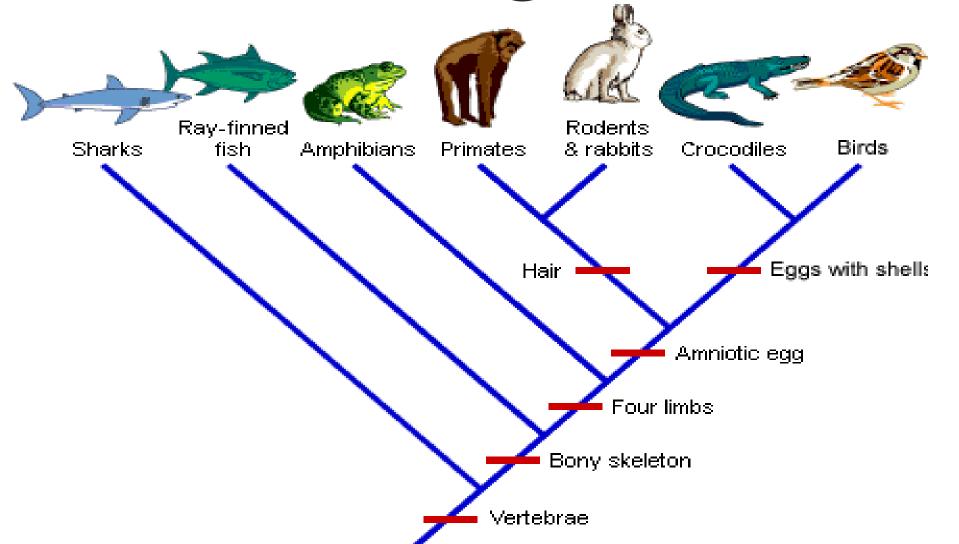




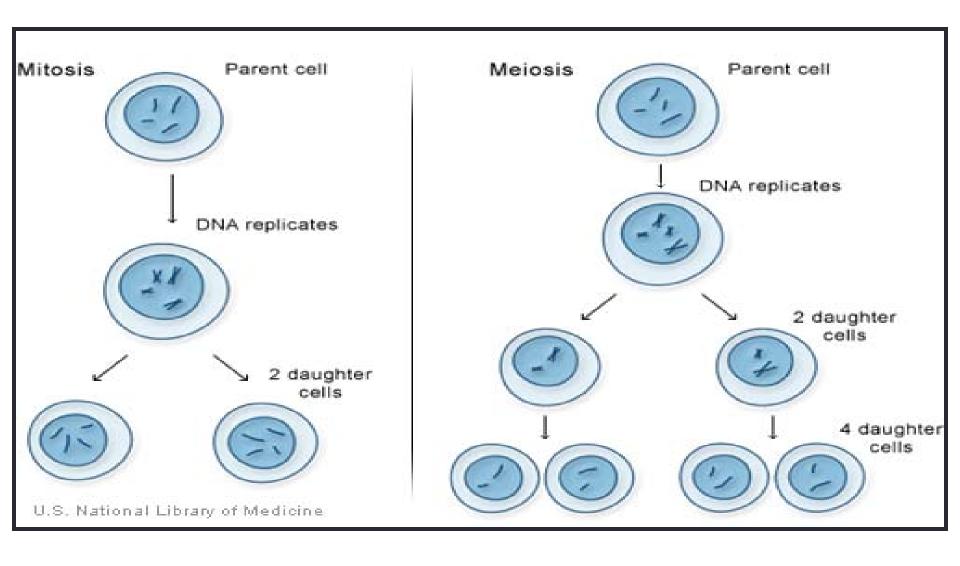
Food Chain



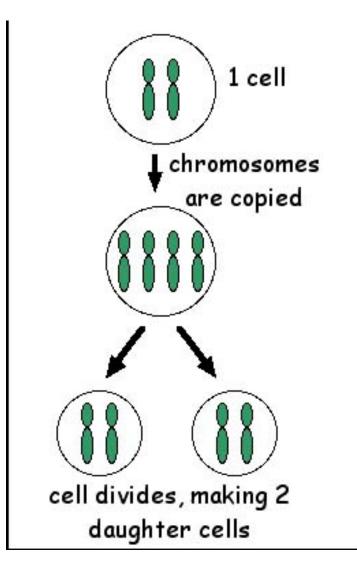
Cladogram



Mitosis vs Meiosis



Mitosis



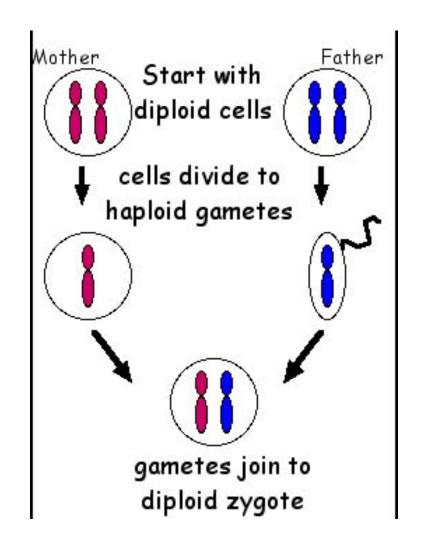
Cell division

 Produces two identical diploid daughter cells

Meiosis

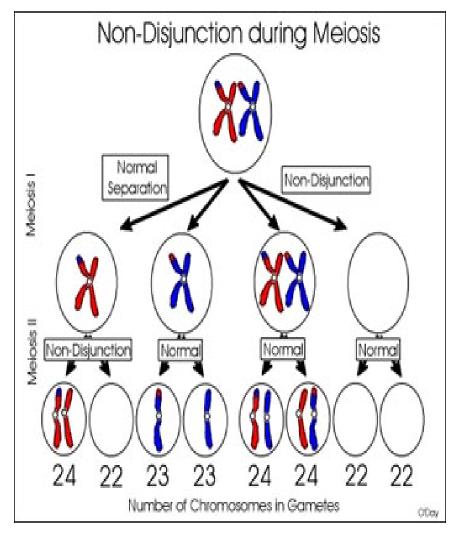
 Produces four different haploid daughter cells (gametes)

 Occurs in sex cells to form gametes



Nondisjunction

 Homologous chromosomes fail to separate during meiosis.



Protists

- Unicellular Eukaryotes
- Can be autotrophic or heterotrophic
- Reproduce mostly asexually

