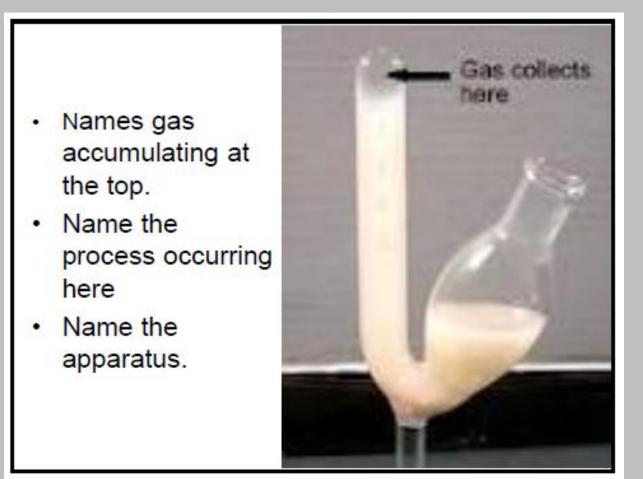
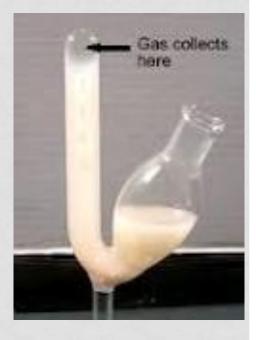


- Know terms
 - –Anaerobic respiration
 - –Aerobic respiration
 - -Fermentation

- Anaerobic respiration
 - a form of respiration using electron acceptors other than oxygen.
- Aerobic respiration
 - The process of generating energy by the full oxidation of nutrients through Krebs cycle where oxygen is the final electron acceptor.
- Fermentation
 - a metabolic process converting sugar to acids, gases and/or alcohol
 - Absence of the electron transport chain.



- Name gas accumulating at the top.
 - Carbon dioxide
- Name the process
 - Fermentation
- Name the apparatus.
 - Fermentation Tube



Equipment

- -Volumeter
 - an instrument for measuring the volumes of gases and liquids and of solids by the amount of gas or liquid they displace.
- Thermobarometer
 - an apparatus that provides an accurate measurement of pressure by observation of the change in the boiling point of a fluid

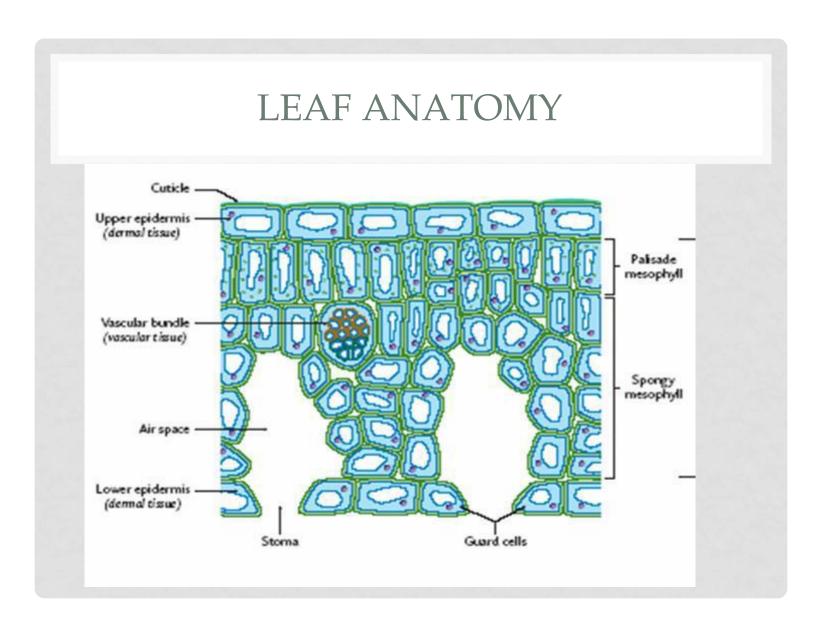
Know

- Phenol red turns yellow with acid
- –KOH absorbs CO₂

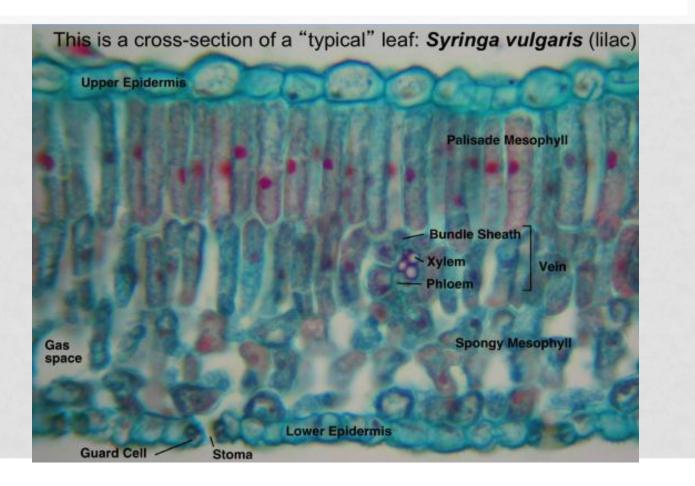
PHOTOSYNTHESIS 6 CO₂ + 6 H₂ O - C₆ H₁₂ O₆ + 6O₂ Carbon dioxide Water Organic Oxygen from the matter atmosphere 6 Carbon Dioxide + 6 Water → Glucose + 6 Oxygen

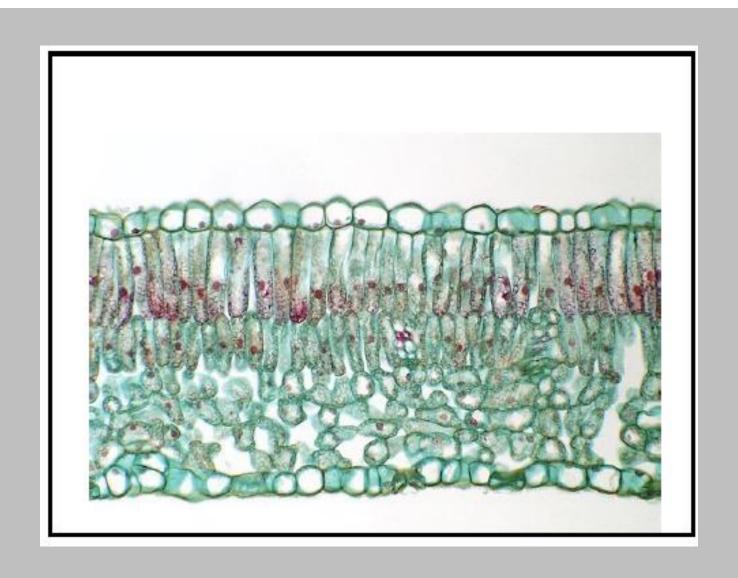
PHOTOSYNTHESIS

$$6CO_2$$
 + $12H_2O$ $\xrightarrow{\text{light}}$ $C_6H_{12}O_6$ + $6O_2$ + $6H_2O_3$ carbon water glucose oxygen water dioxide

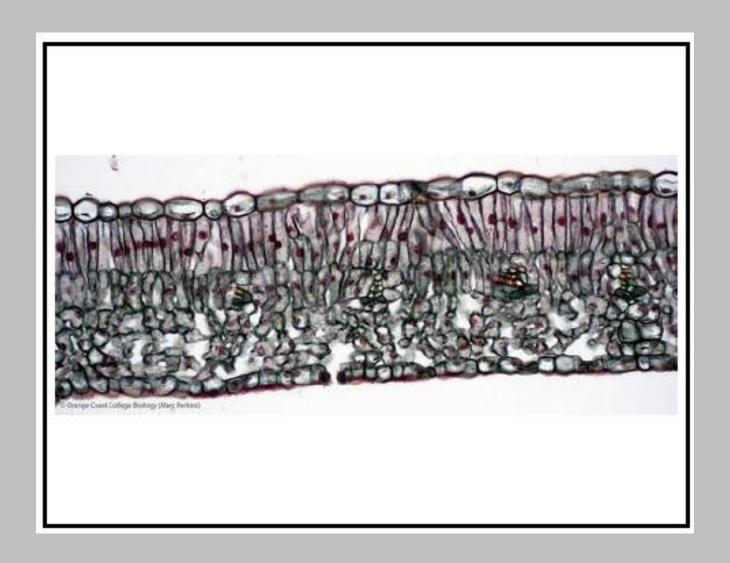


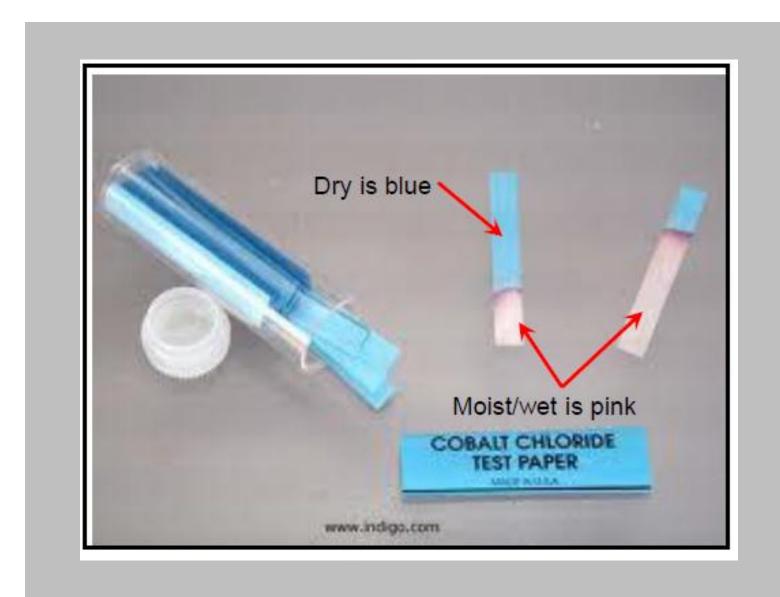
LEAF CROSS-SECTION



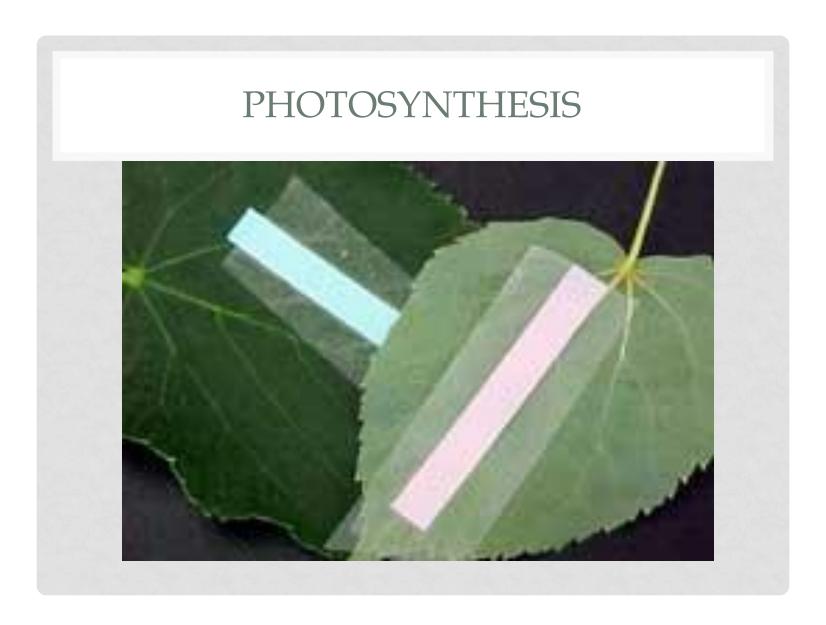


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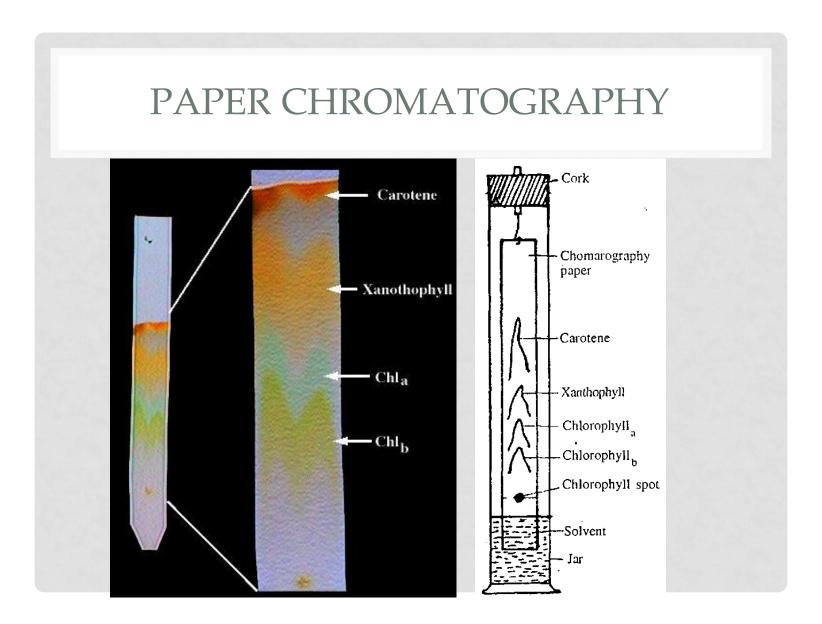




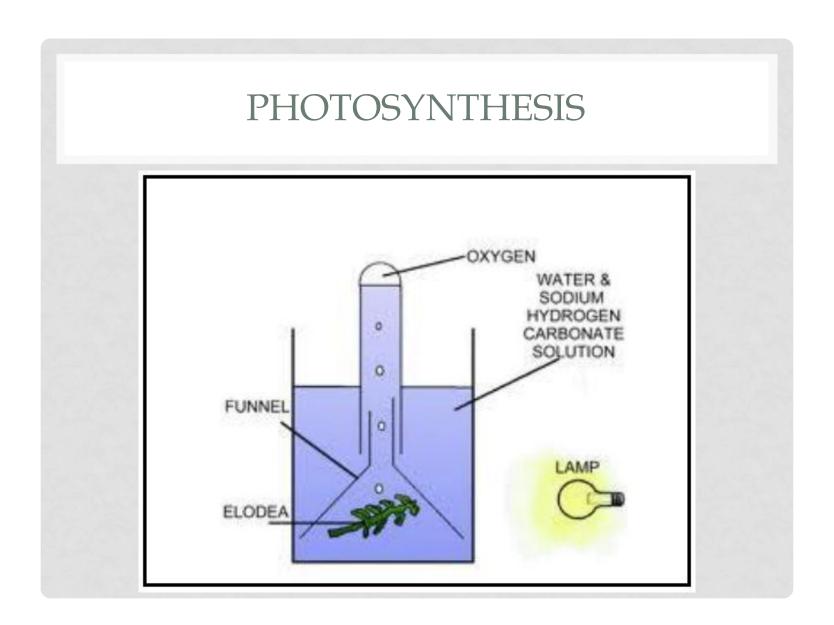


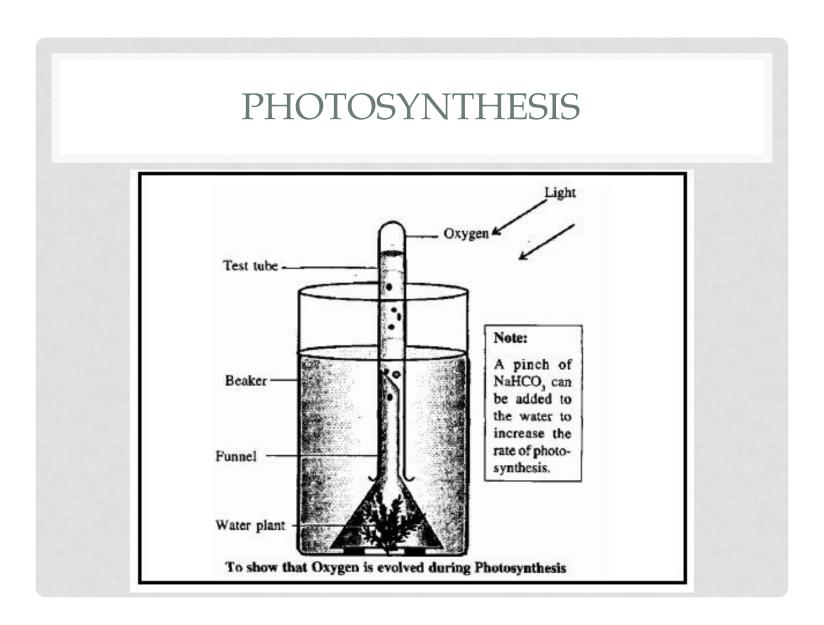


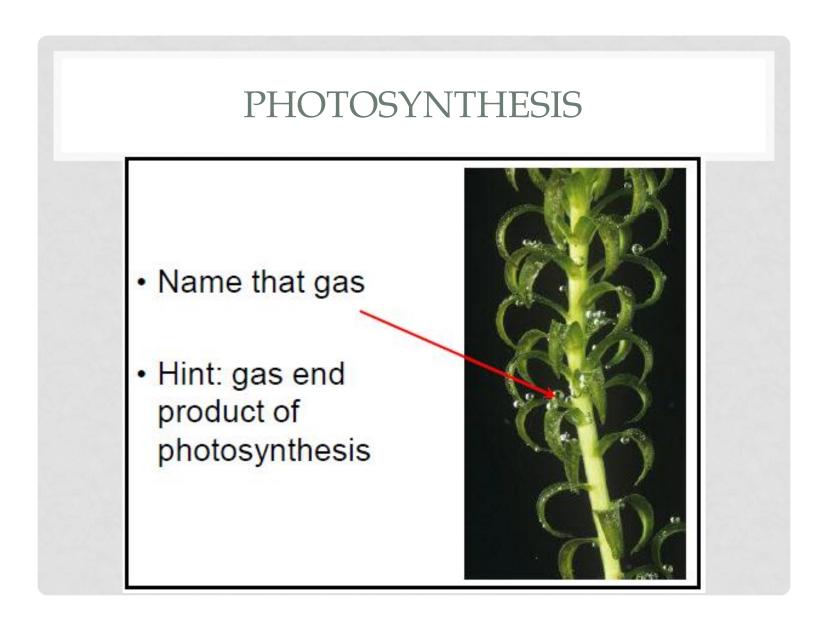
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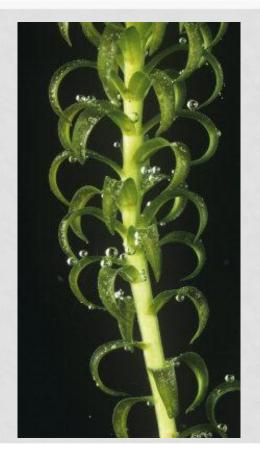






PHOTOSYNTHESIS

 What gas is given off at the end of photosynthesis?
Oxygen



CELL CYCLE

- Interphase
 - G1
 - S
 - G2
- Mitosis
 - Prophase
 - Metaphase
 - Anaphase
 - Telophase
 - Cytokinesis (usually during telophase).

TERMS TO KNOW

"Chrom" -- words

Chromatin

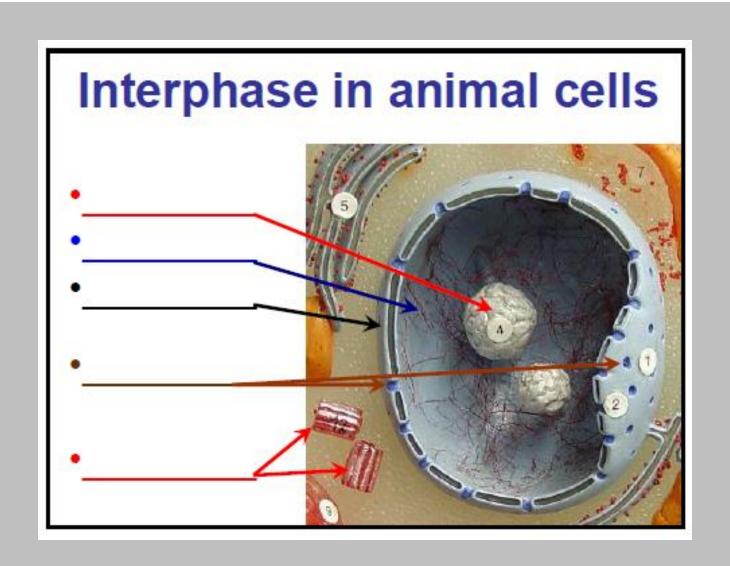
Relaxed chromosomes in interphase.

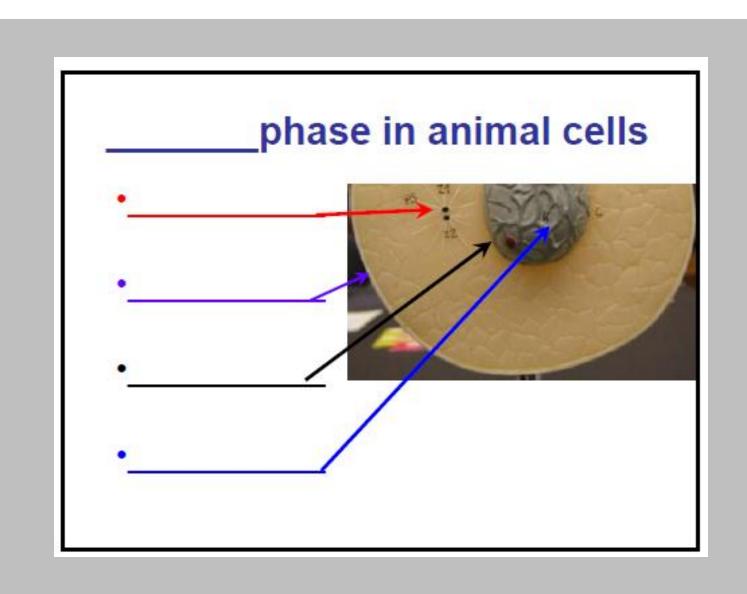
Chromosome

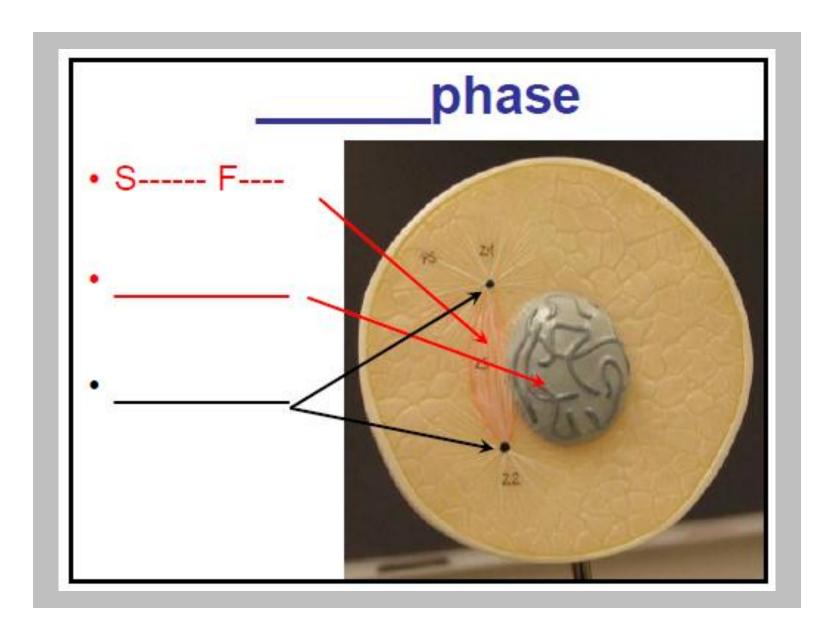
 A structure within the cell that bears the genetic material as a threadlike linear strand of DNA bonded to various proteins in the nucleus of eukaryotic cells, or as a circular strand of DNA (or RNA in some viruses) in the cytoplasm of prokaryotes and in the mitochondrion and chloroplast of certain eukaryotes.

Chromatid

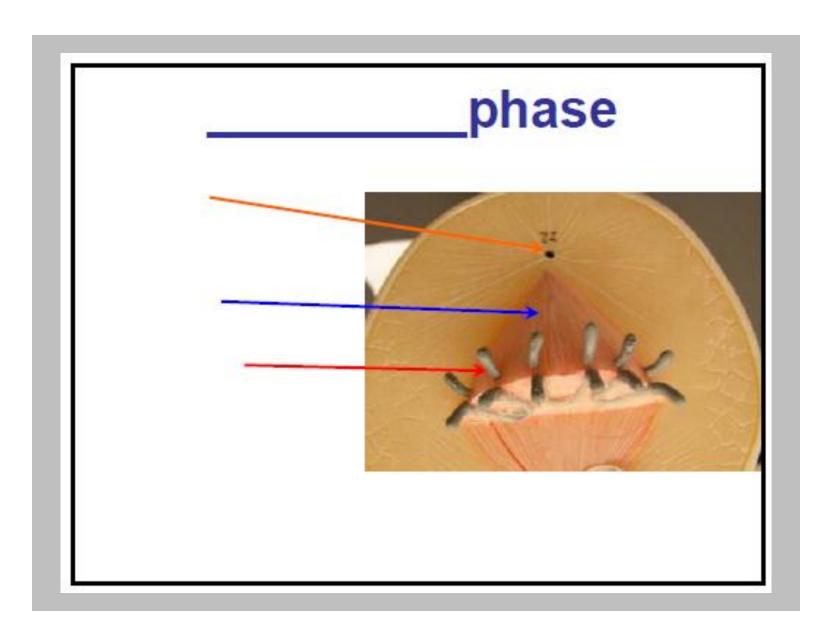
 Half of a duplicated chromosome (half of X shaped duplicated chromosome). When chromatids separate they are now called chromosomes.

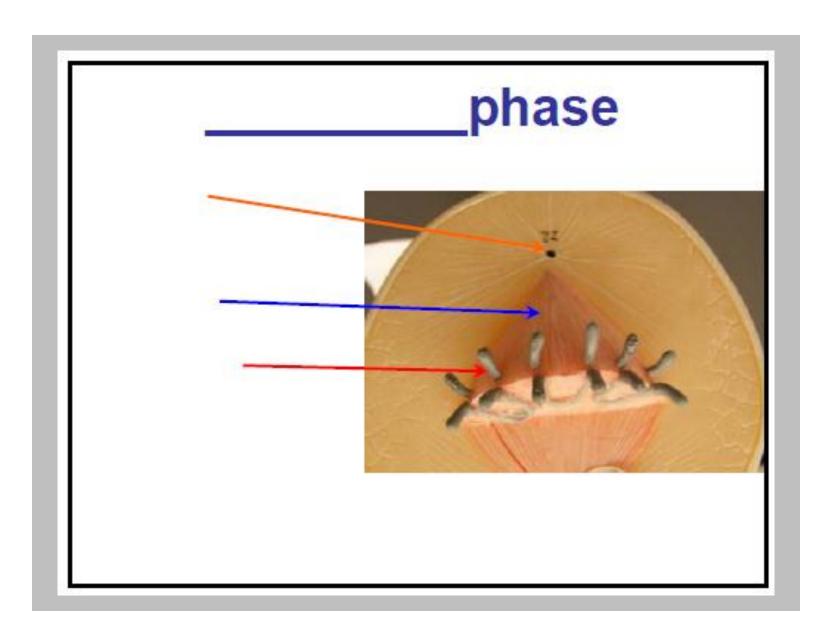


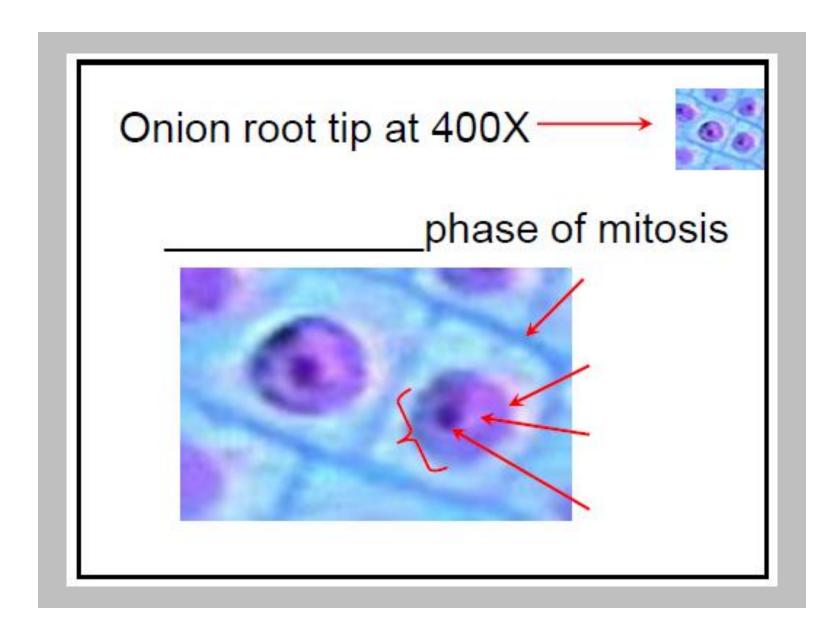


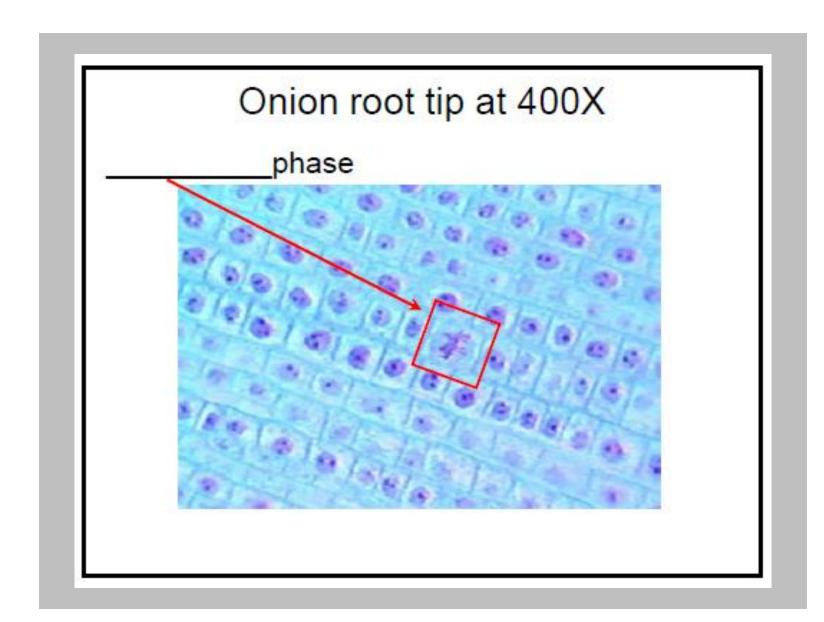


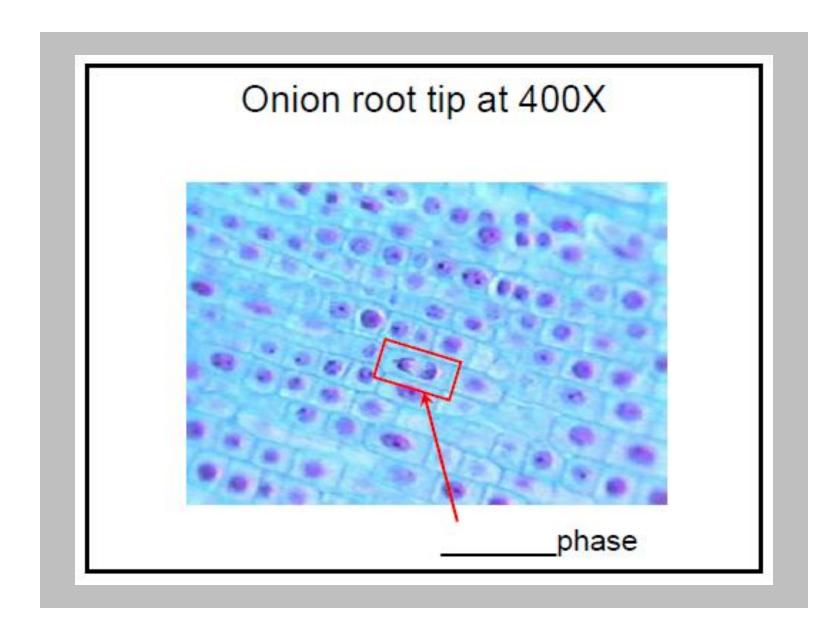
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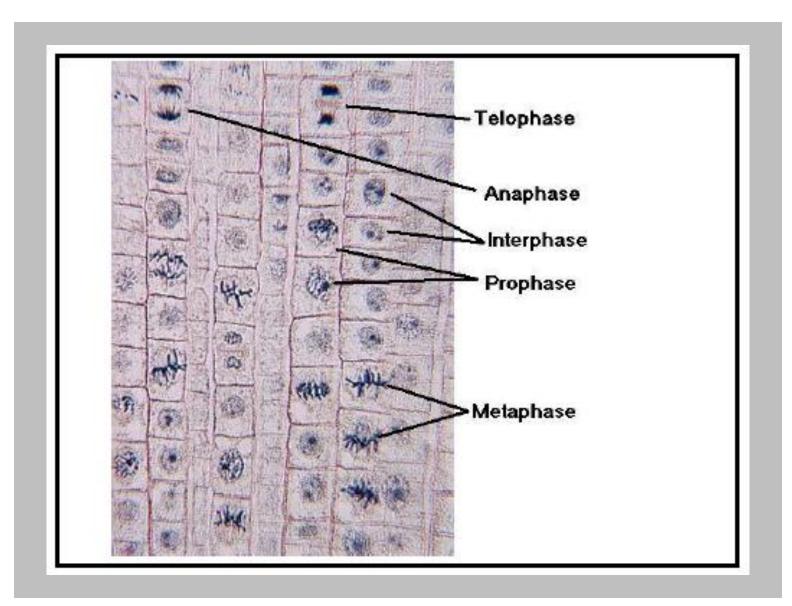


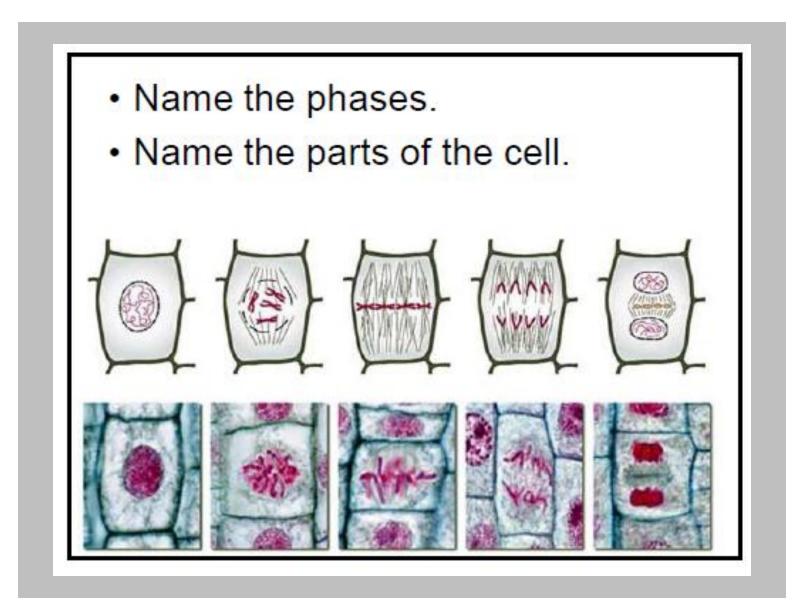


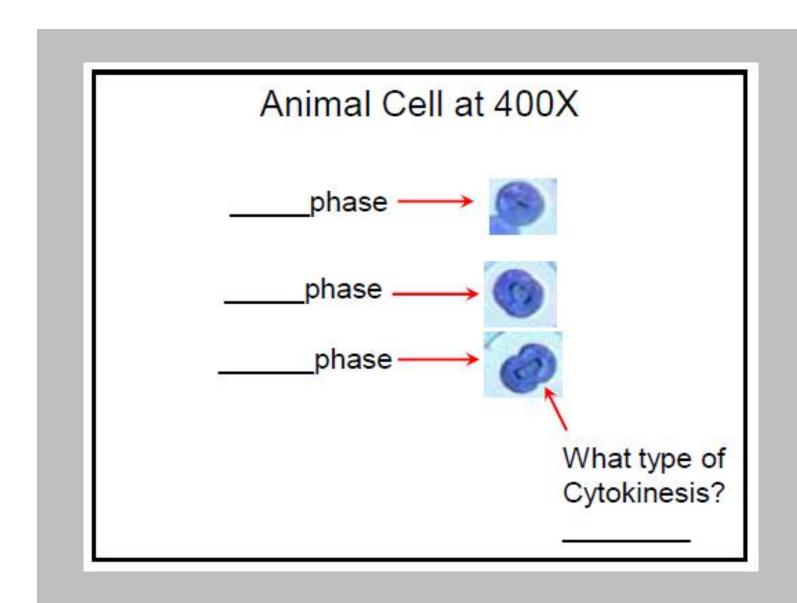


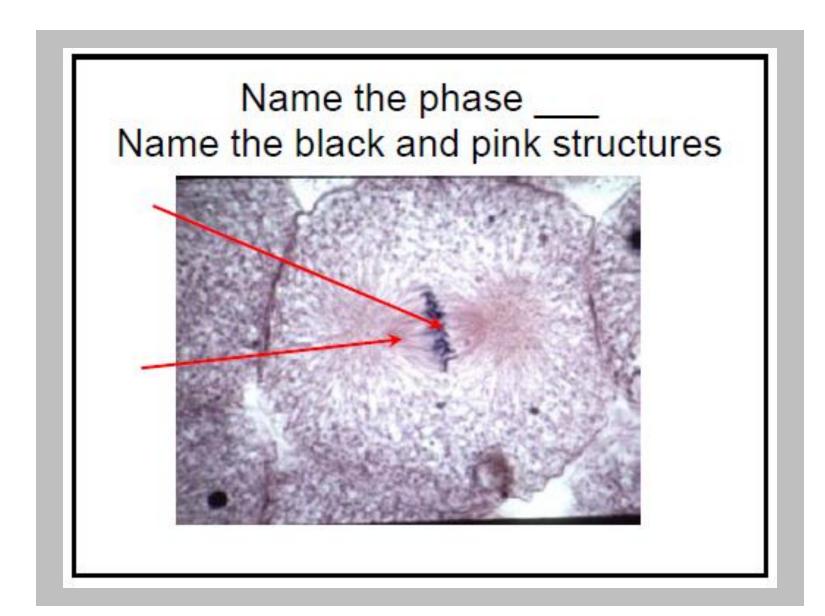


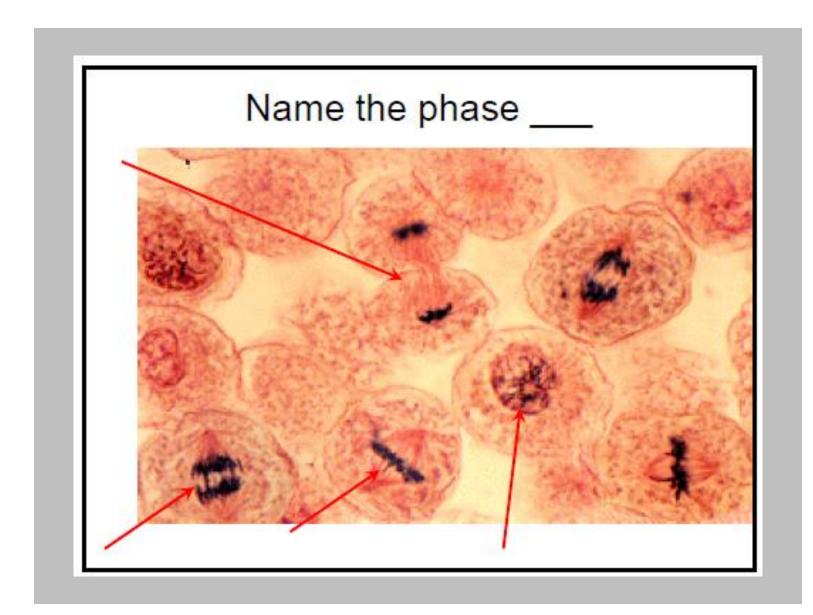


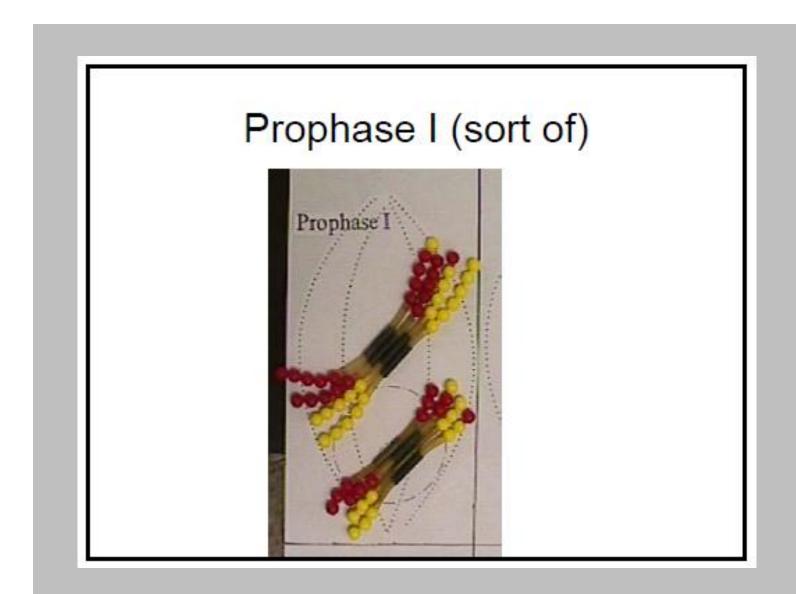


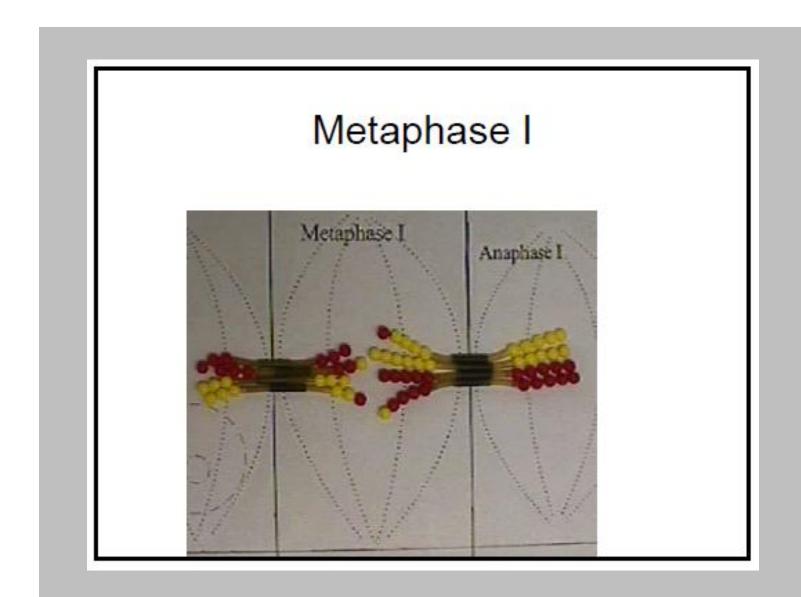


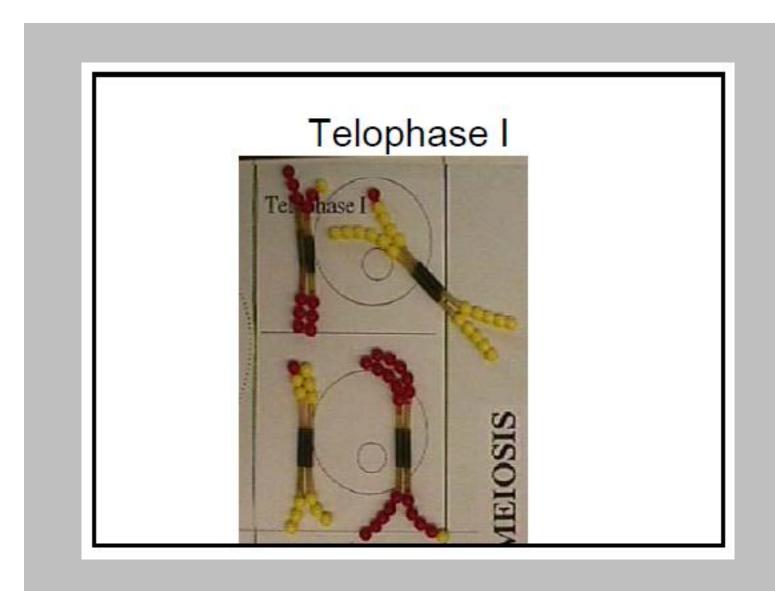


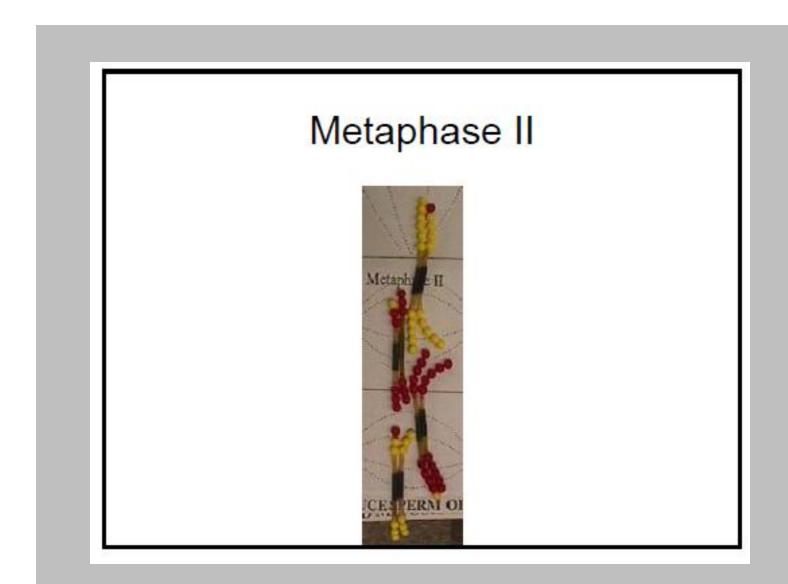


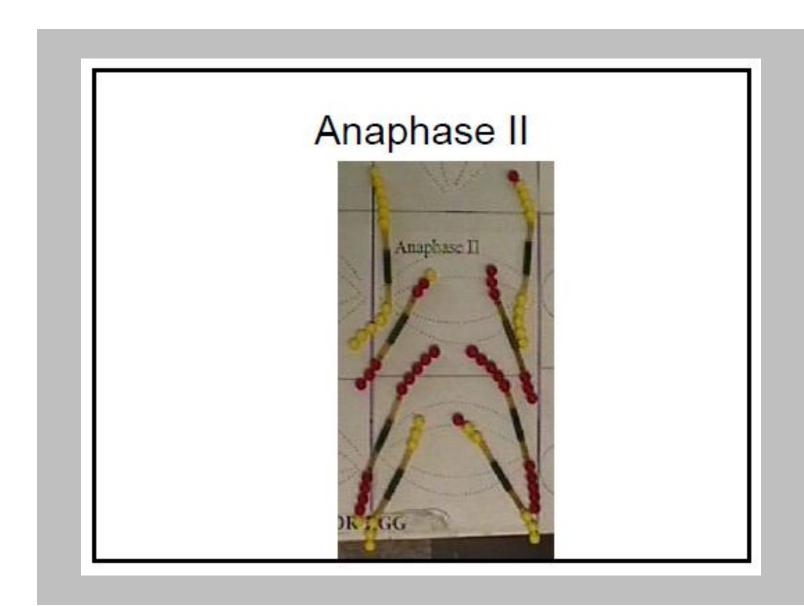


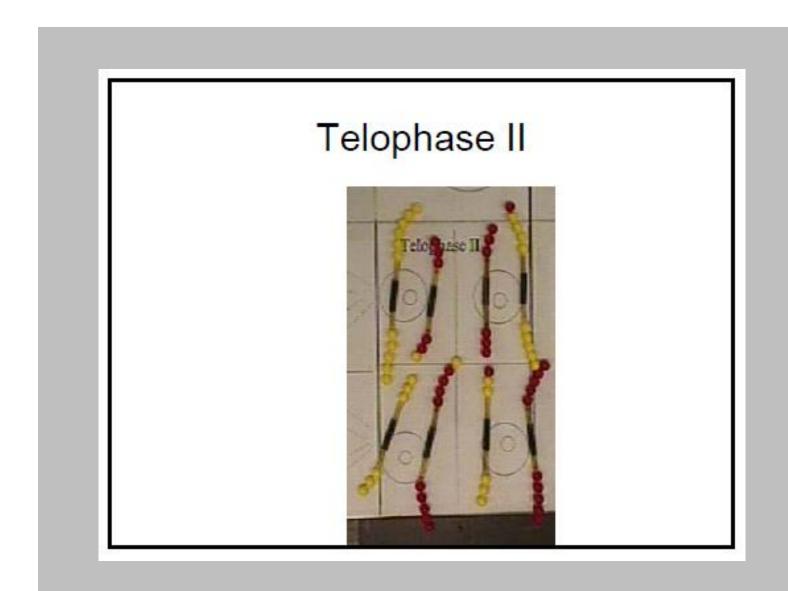


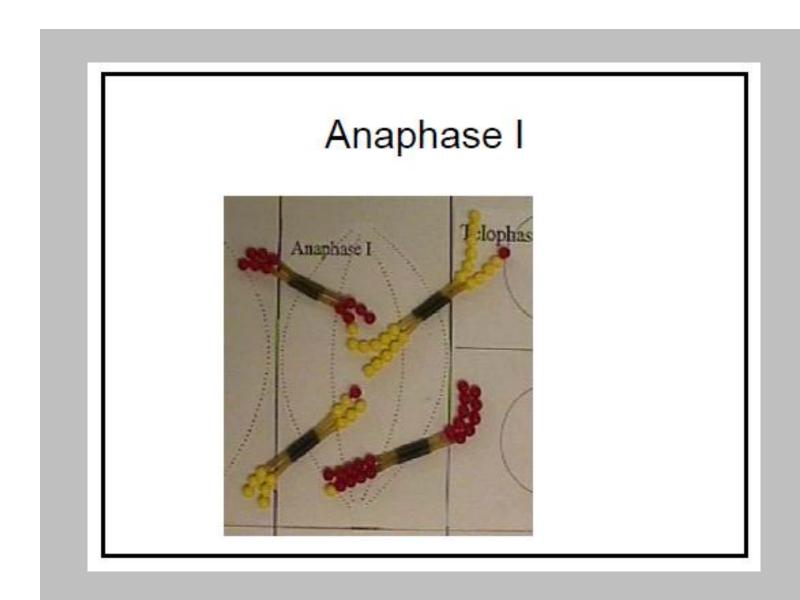


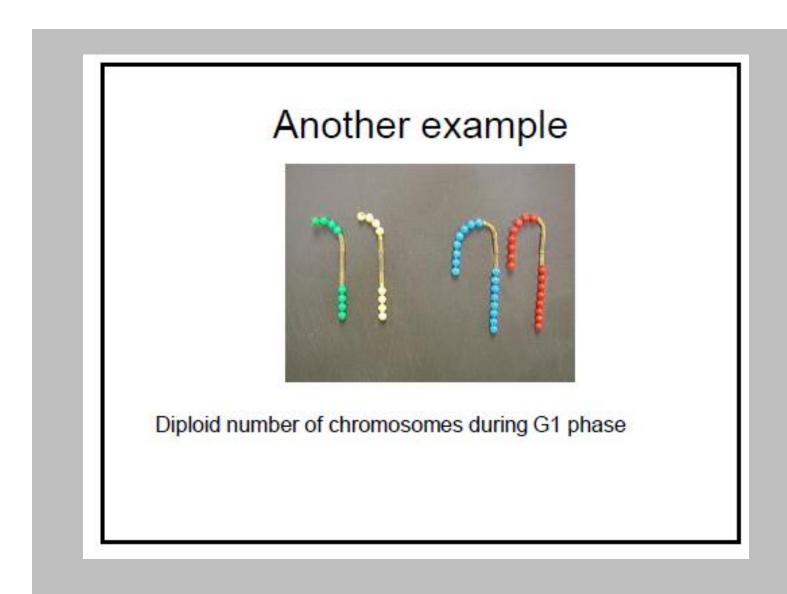


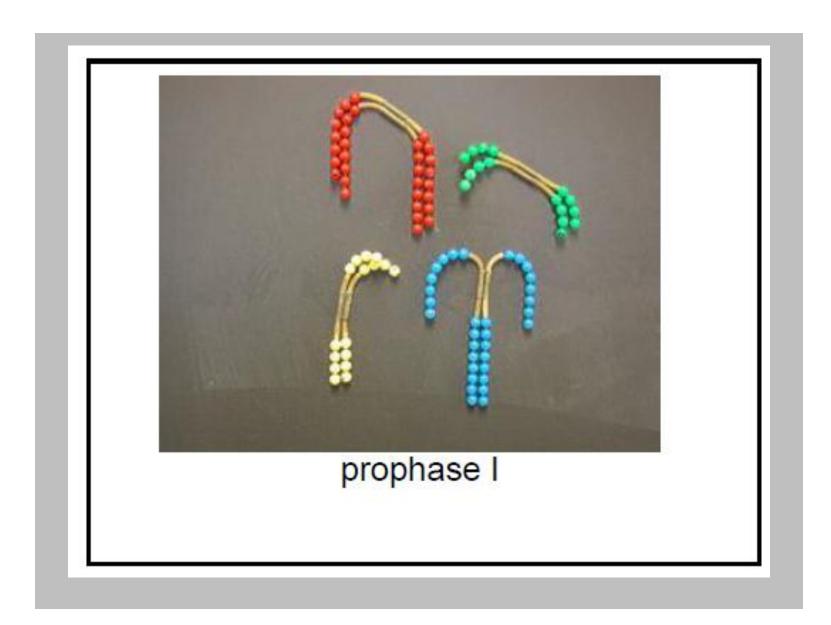


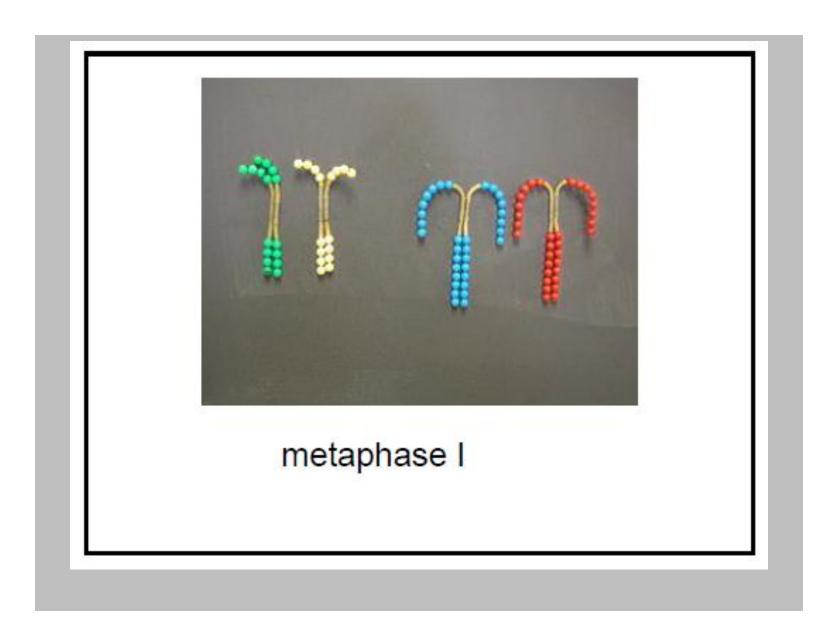


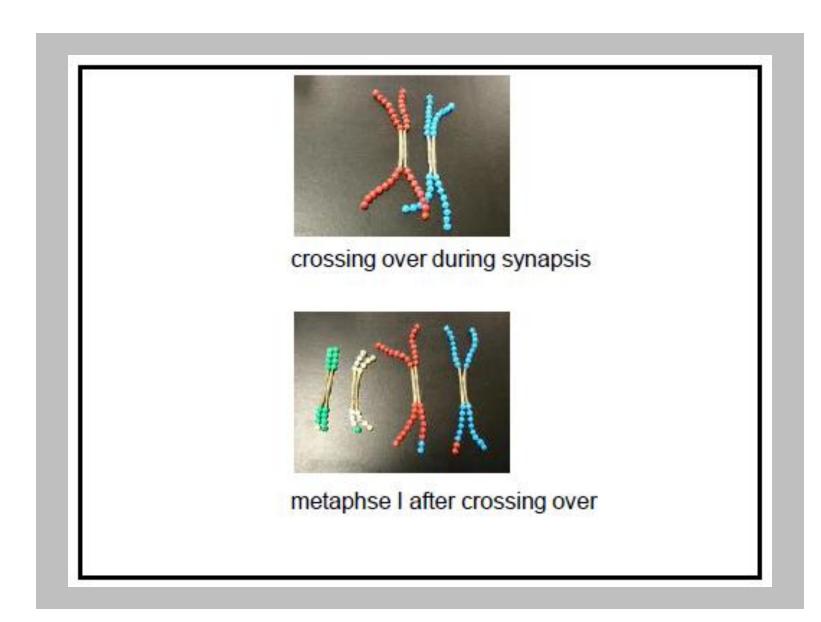


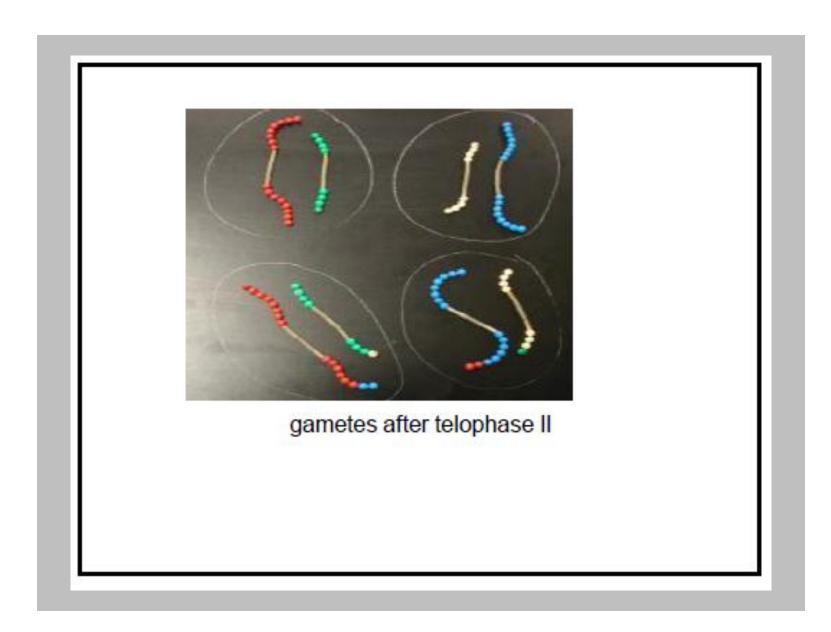


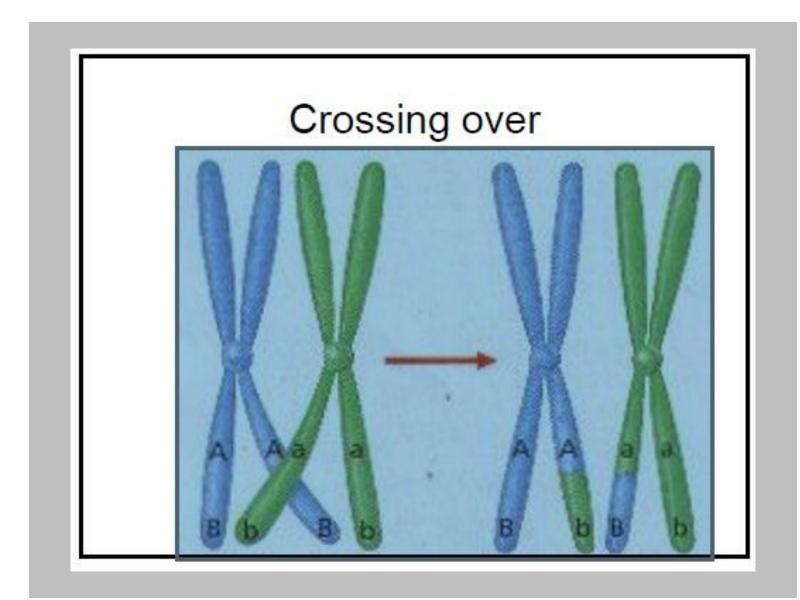


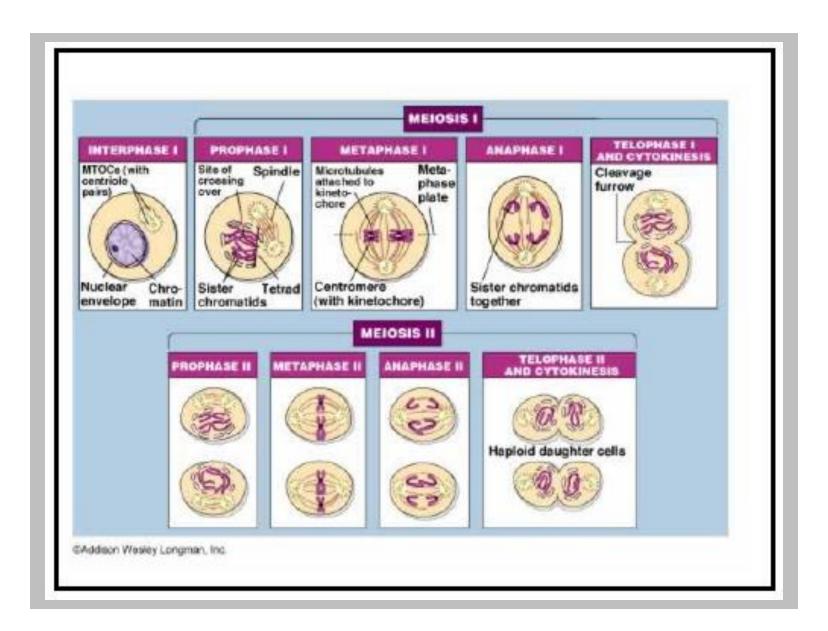




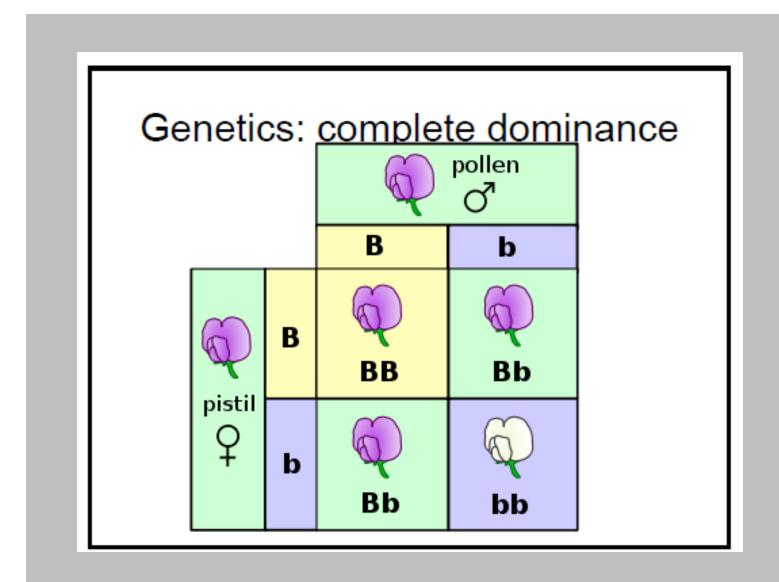


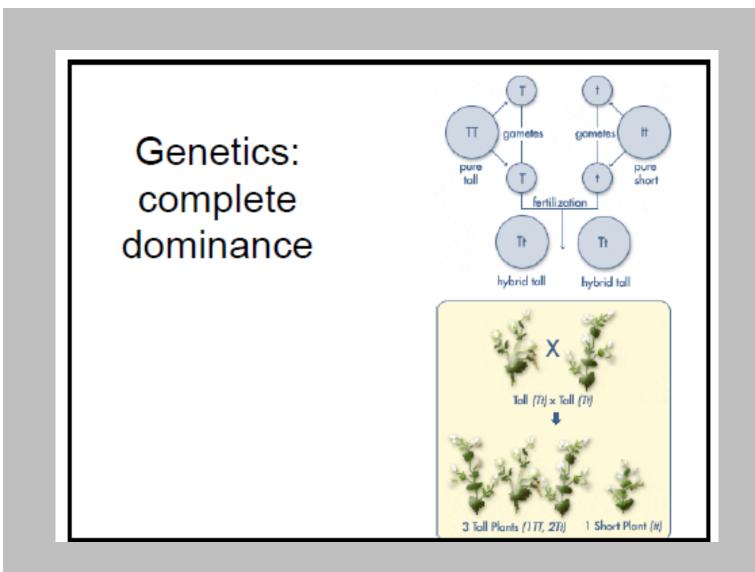


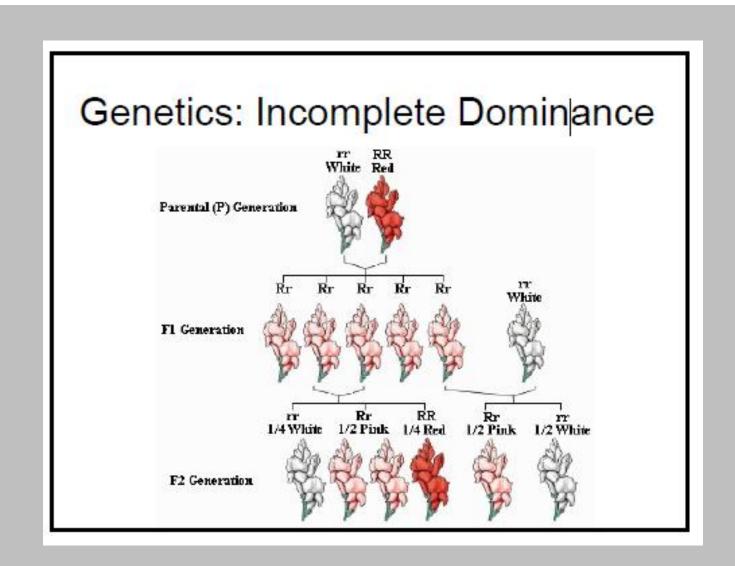


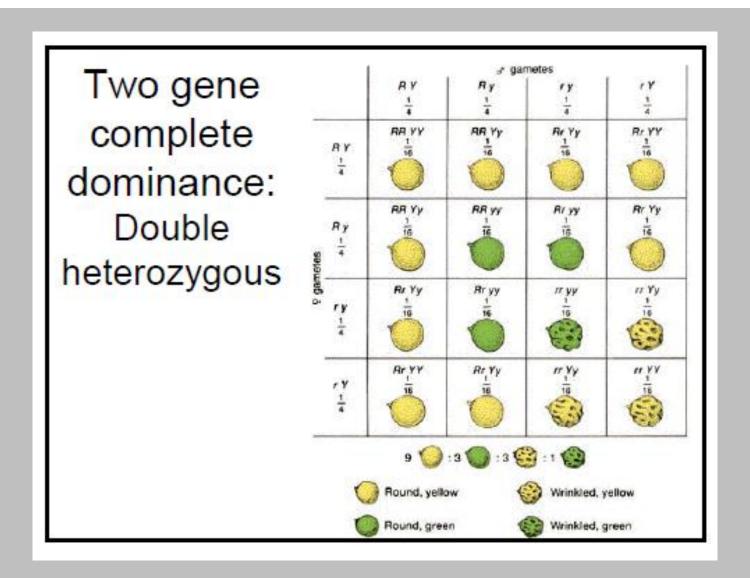


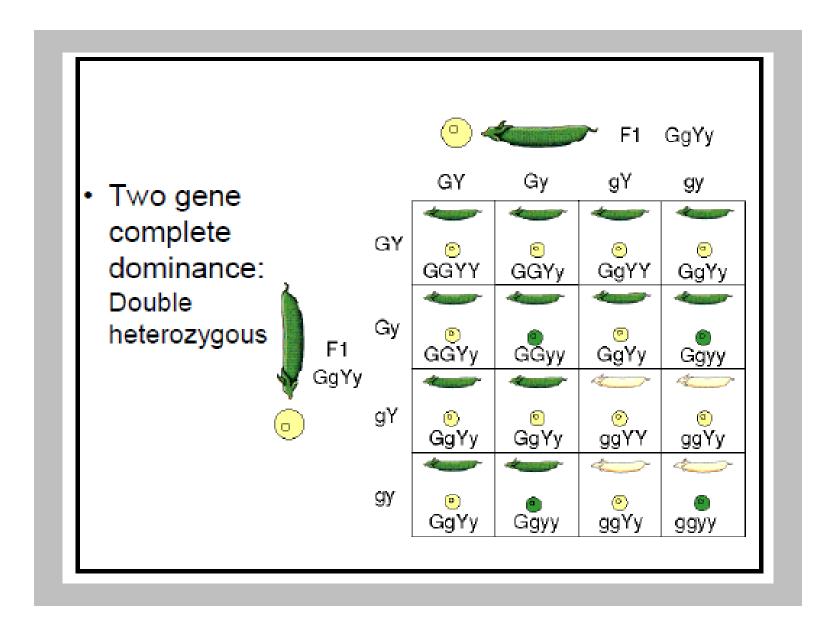
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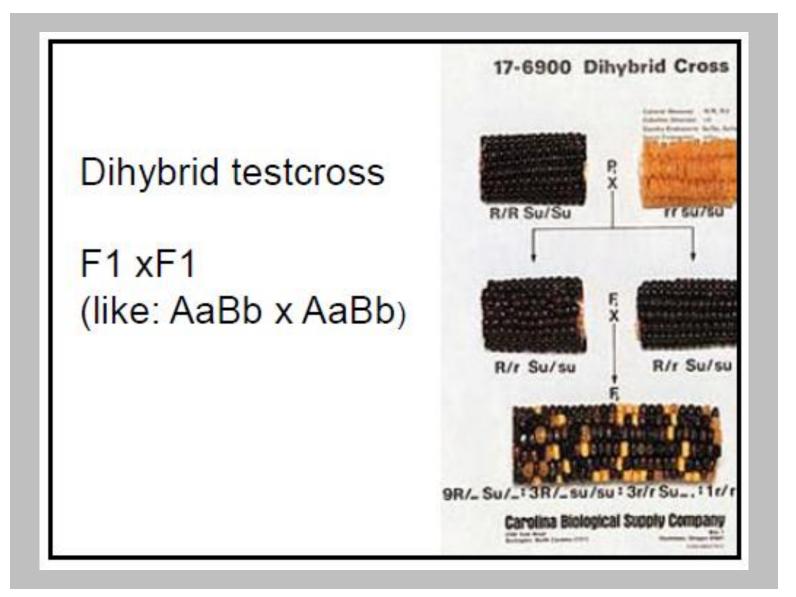


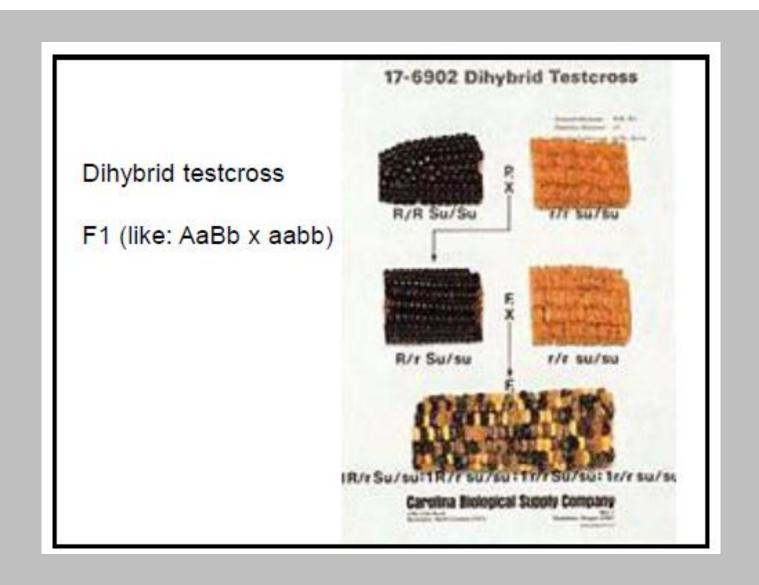


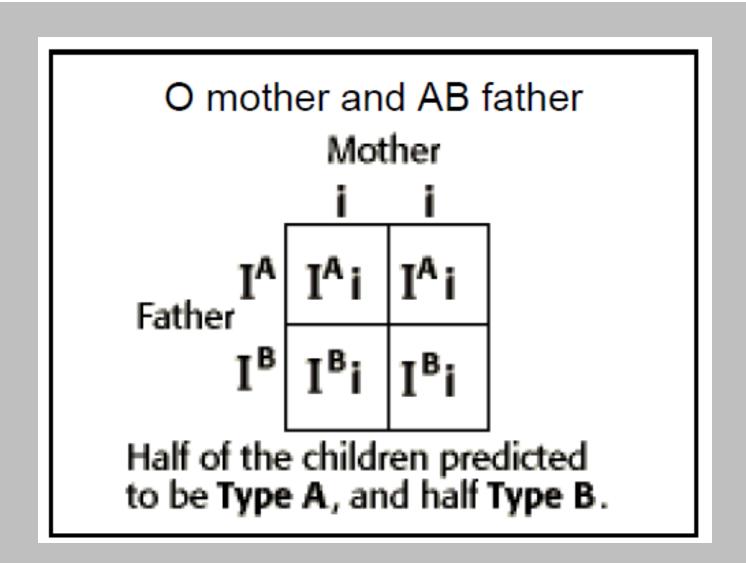






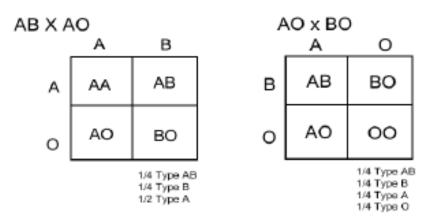


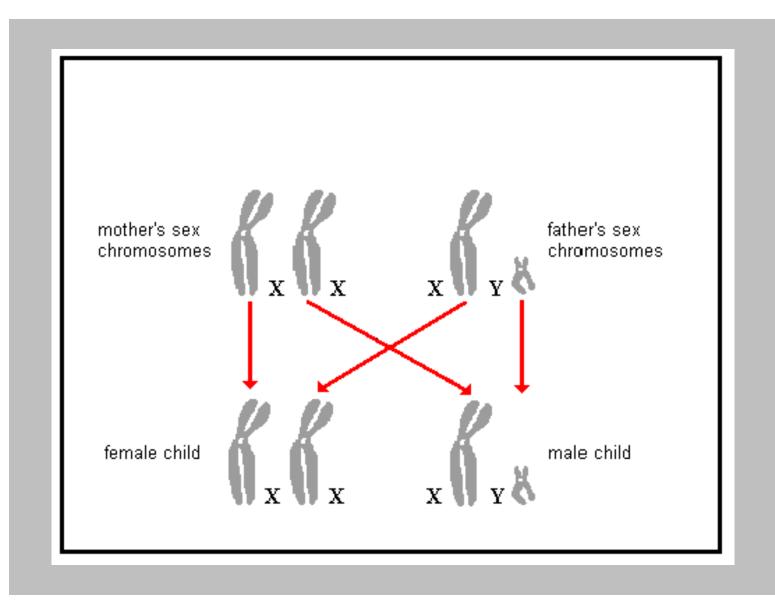


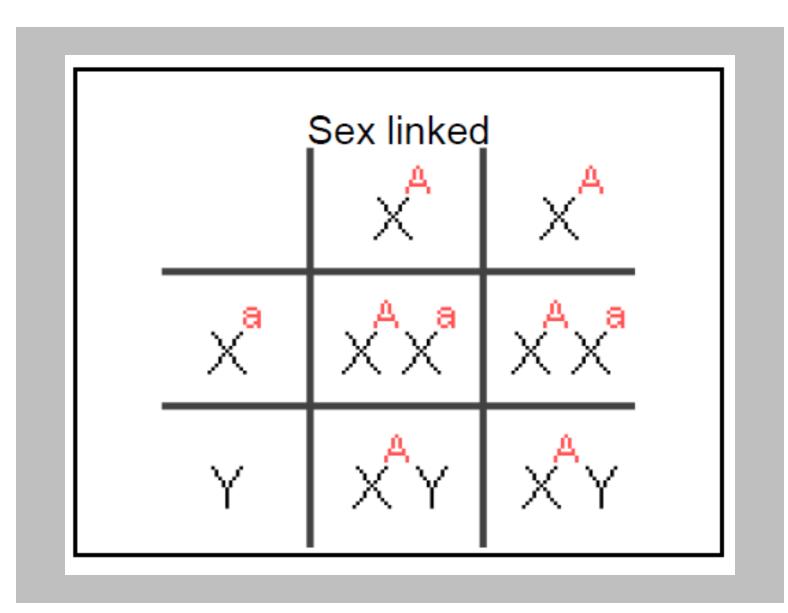


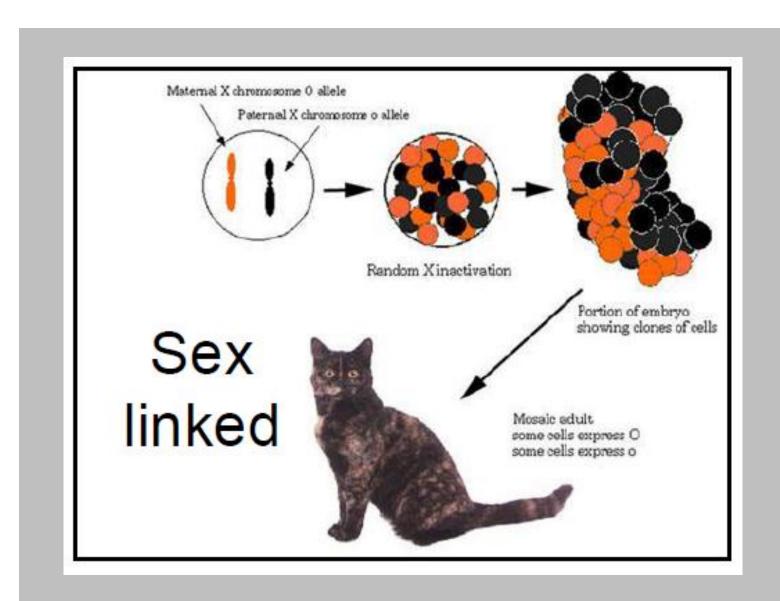
Don't use A, B, and O as alleles

 Small case i for the O allele implies recessive and capital O implies dominance. Also I^A and I^B and i imply one gene the I gene with three alleles











Questions



Compiled by

D. Leonard – Learning Specialist & K. Martin – Peer Tutor

The Academic Support Center @ Daytona State College http://www.daytonastate.edu/asc/ascsciencehandouts.html