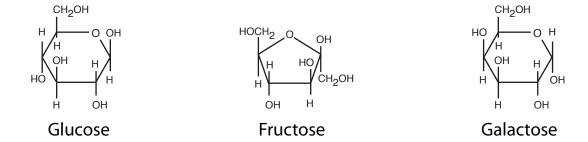
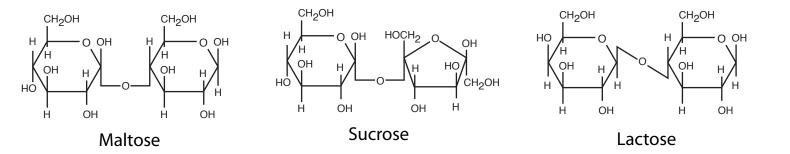
Carbohydrates Illustrations of Carbohydrate Structure and Function to Accompany Lecture CH₂OH By Noel Ways

Monosaccharides

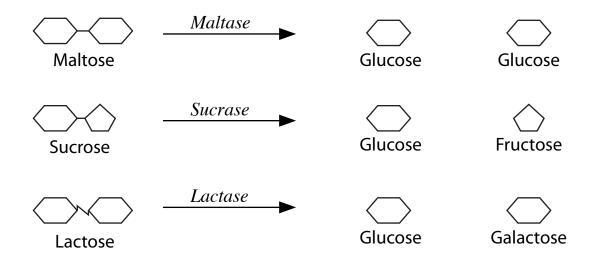
Identical molecular formula for all below: C₆H₁₂O₆



Disaccharides



Disaccharide Enzymes



Polysaccharides of Glucose

(These polysaccharides may be highly branched)

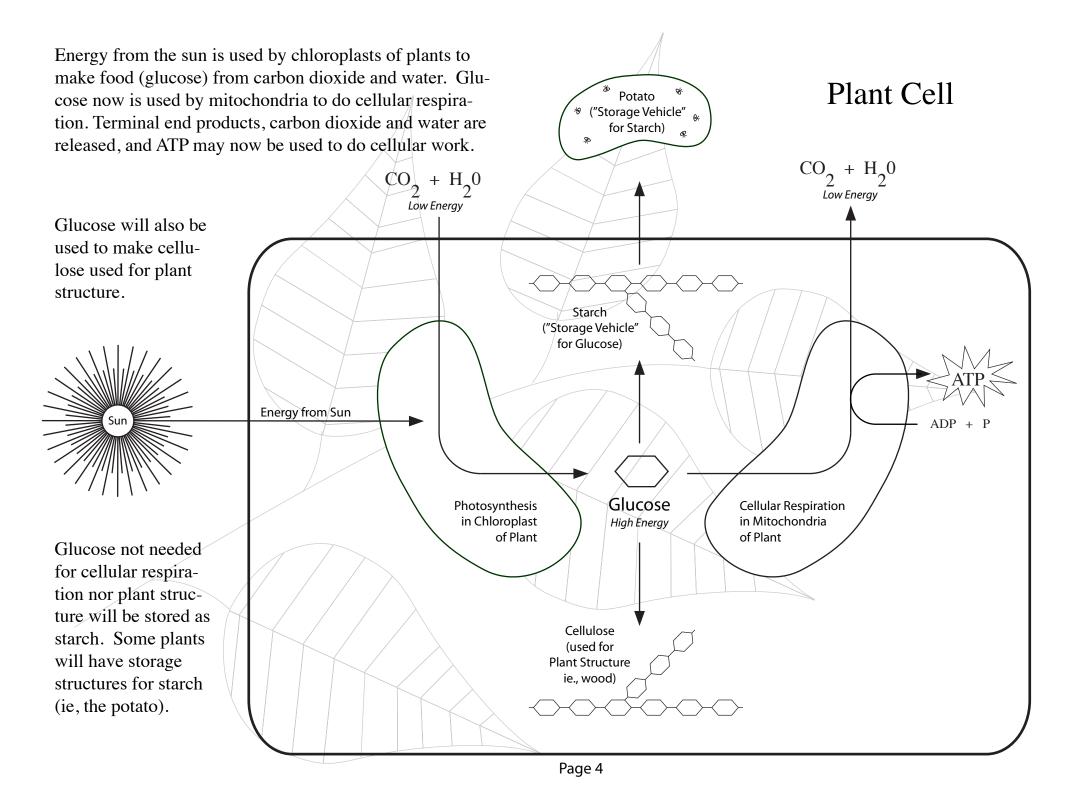
The sturctures of starch and glycogen are similar except that glycogen branches are shorter and more frequent.

Starch

Glycogen

Cellulose

Starch showing branching



Man eats the potato and catabolizes starch into glucose. Glucose is absorbed and enters cells where mitochondria do cellular respiration. Terminal end products, carbon dioxide and water are released, and ATP may now be used to do cellular work.

Glucose not needed for ATP synthesis purposes may be stored as glycogen in liver and other organs.

Starch Potato ("Storage Vehicle" for Starch) Potato For Starch

Animal Cell

