Biology Chapter 4 Section 6 – Fermentation

ofATP_ withoutoxygen
Glycolysis happens all of the time. If there is oxygen, the products ofglycolysis are used in cellularrespiration If there is no oxygen, your cells keep producingsmall amounts of ATP through theanaerobicprocesses of glycolysis andfermentation
The products of glycolysis are _pyruvate_(a 3-carbon molecule), ATP, and NADH.
During glycolysis NAD+ is turned into NADH (energy carrying molecule)
Fermentation provides a supply ofNAD+ that allows glycolysis to continue. It does not makeATP
Lactic Acid Fermentation will take place if nooxygen is available.
LacticAcid fermentation happens in your muscle cells, in the cells of othervertebrates, and in some microorganisms. Lactic Acid makes yourmusclesburn during hard exercise.
Fermentation helps produce certain foods. Ex. cheese, bread, and yogurt
Alcoholic fermentation is used by manyyeasts, and someplants Carbondioxide gas is released
when sugar is broken down throughglycolysis andalcoholicfermentation
Bacteria that use fermentation are important in the digestive systems of animals. These organisms are
necessary to fullydigest foods.