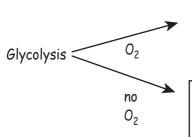
SECTION **FERMENTATION**

4.6 Power Notes



Cellular Respiration

Fermentation:

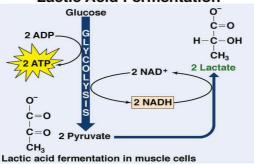
process that allows glycolysis to continue to produce ATP when oxygen is not available, but does not produce ATP

Lactic Acid Fermentation

Process:

(as sketch or in words) — pyruvate and NADH enter fermentation; NADH used to convert pyruvate into lactic acid; NAD+ recycled to glycolysis

Lactic Acid Fermentation







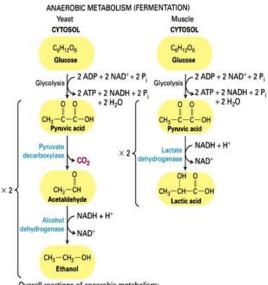
Alcoholic Fermentation

Process:

(as sketch or in words) pyruvate and NADH enter fermentation; NADH used to convert pyruvate into an alcohol and carbon dioxide; NAD+ recycled to glycolysis

Uses of Fermentation

- 1. Cheese
- 2. Bread
- 3. Yogurt



Overall reactions of anaerobic metabolism:

Glucose + 2 ADP + 2 P_i → 2 ethanol + 2 CO₂ + 2 ATP + 2 H₂O

Glucose + 2 ADP + 2 P_i → 2 lactate + 2 ATP + 2 H₂O

