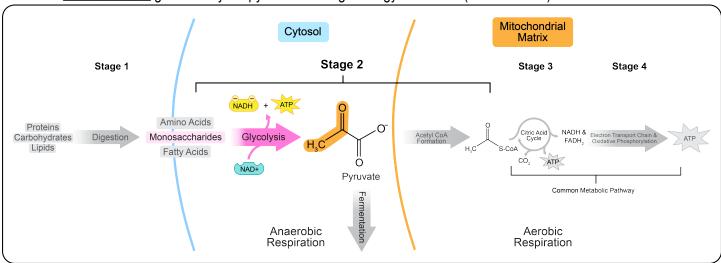
CONCEPT: INTRO TO GLYCOLYSIS

• Glycolysis is part of stage 2 of carbohydrate catabolism.

□ _____ glucose to yield pyruvate and high-energy molecules (ATP & NADH).



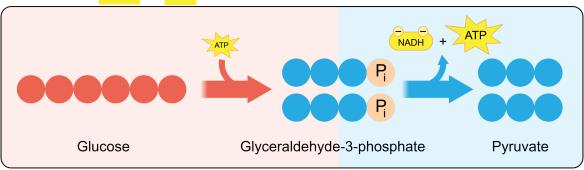
• Takes place in the _____ (outside mitochondria) and does not require oxygen.

EXAMPLE: Which one of the following molecules is not a product of glycolysis?

- a) Pyruvate
- b) NADH
- c) ATP
- d) Acetyl CoA

Phases of Glycolysis

- Glycolysis is a _____ catabolic pathway that consists of ___ phases:
 - Energy-Consuming Phase: Phosphorylation and bond ______ reactions split a glucose molecule.
 - □ Produces ____ molecules of glyceraldehyde-3-phosphate (G3P).
 - □ Consumes _____.
 - B Energy-Producing Phase: _____ and dephosphorylation convert glyceraldehyde-3-phosphate to pyruvate.
 - □ Produces NADH and ATP.



CONCEPT: INTRO TO GLYCOLYSIS

EXAMPLE: Which of the following statements is incorrect about glycolysis? a) Glycolysis produces pyruvate, NADH, and ATP. b) The first phase of glycolysis does not produce any energy. c) Phase B of glycolysis produces 2 molecules of glyceraldehyde. d) Glycolysis produces more energy than it consumes.
PRACTICE: Which one of the following molecules is a source of energy in the energy-consuming phase of glycolysis? a) NADH b) FADH ₂ c) ATP d) Acetyl CoA
PRACTICE: How many carbon atoms are lost when one glucose molecule undergoes glycolysis? a) 0 b) 2 c) 1 d) 3