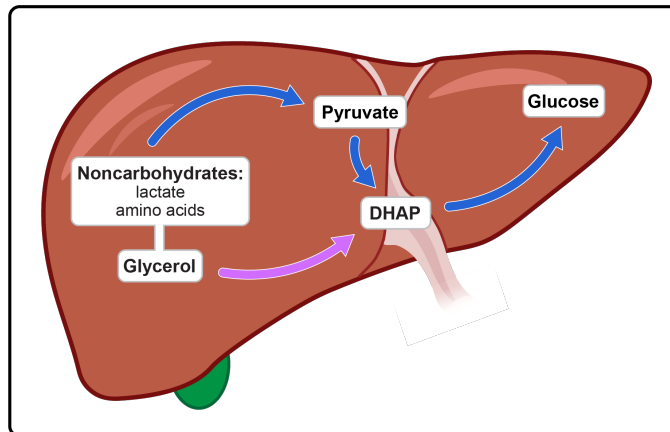


CONCEPT: INTRO TO GLUCONEOGENESIS

- **Gluconeogenesis:** when blood glucose is _____, glucose is synthesized from _____ carbohydrate sources for energy.
 - Most _____ when diet is _____ in carbohydrates or in times of fasting.
- Gluconeogenesis is an _____ process that occurs mainly in the liver.
 - **Recall:** *anabolism* involves reactions that use **Energy** to _____ larger molecules from smaller ones.



Gluconeogenesis vs Glycolysis

- Gluconeogenesis can be viewed as reverse of _____ with some exceptions.
 - Recall reactions _____, _____ & _____ of glycolysis are irreversible.
 - Gluconeogenesis bypasses these irreversible reactions by using different _____.

EXAMPLE: Identify all the statements that are NOT true about gluconeogenesis.

- Gluconeogenesis is exact reverse of glycolysis pathway.
- Primarily occurs in the liver cells.
- Most active in times of fasting or starvation.
- Certain noncarbohydrates have to be converted to pyruvate before entering gluconeogenesis pathway.