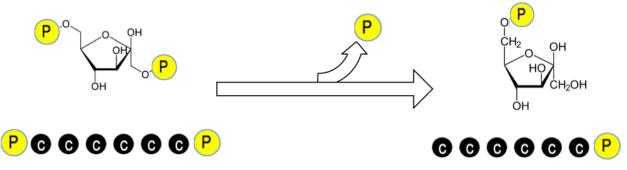
CONCEPT: GLUCONEOGENESIS

- Cannot reverse pyruvate kinase, must convert pyruvate to oxaloacetate before PEP
- Pyruvate carboxylase pyruvate + ATP → oxaloacetate + ADP
 - □ Adds CO₂ to pyruvate

- PEP carboxykinase oxaloacetate + GTP → PEP + GDP
 - □ Removes CO₂ and phosphorylates

• Fructose 1,6-bisphosphatase reverse the action of PFK-1 (fructose 1,6-bisphosphate → fructose 6-phosphate)



- ullet Glucose 6-phosphatase reverse the action of hexokinase (glucose 6-phosphate ullet glucose)
 - □ Enzyme is only present in liver cells

