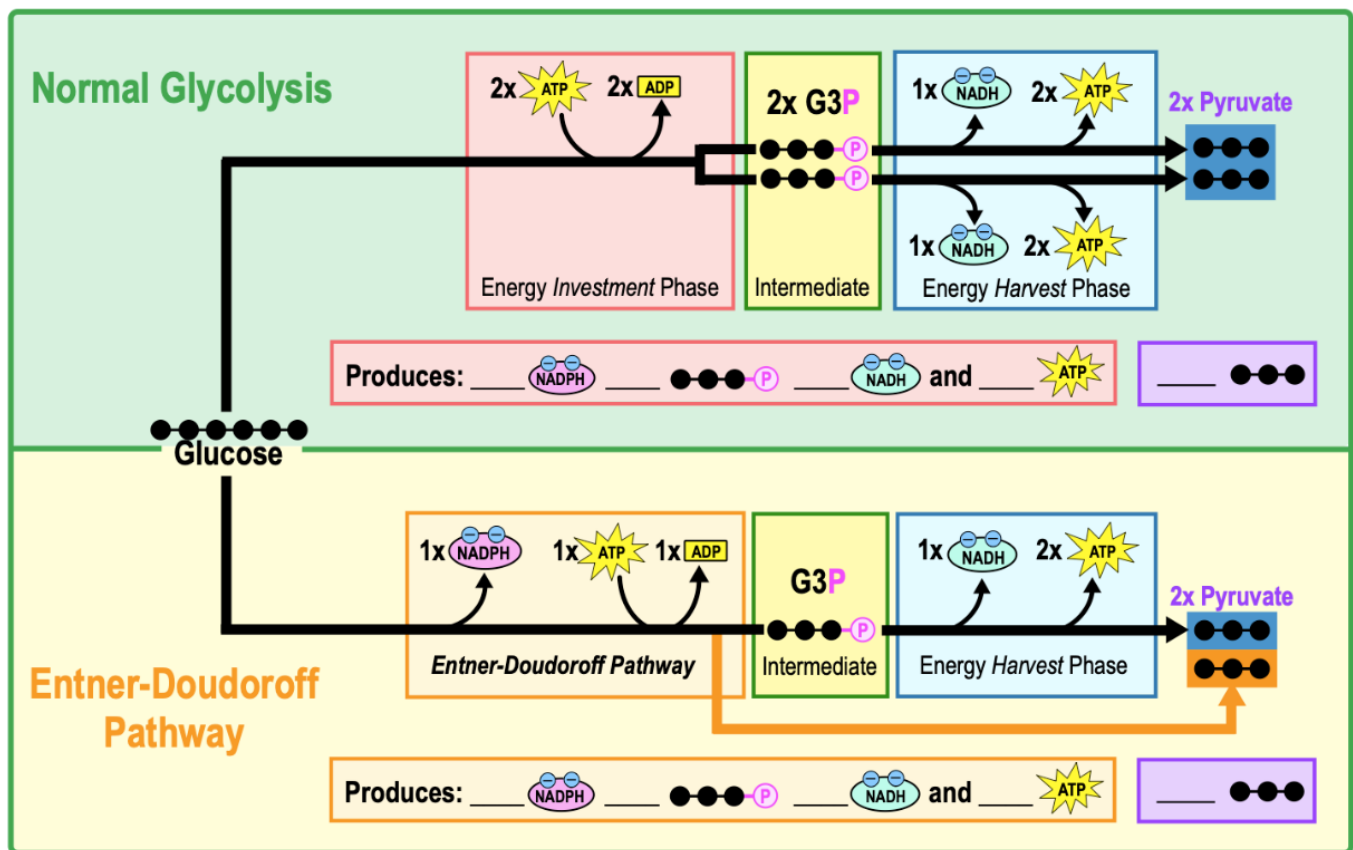


CONCEPT: ENTNER-DOUDOROFF-PATHWAY

- Recall: Glycolysis has ____ phases: 1) Energy investment phase & 2) Energy harvest phase.
 - Some bacteria (NOT eukaryotes) use an *alternative* pathway for glycolysis energy ____ phase.
- **Entner-Doudoroff Pathway (EDP)**: alternative glycolysis pathway producing several molecules including **NADH**.
 - Only invests 1 **ATP** molecule to produce **G3P** for the energy harvest phase.
 - Since *only* 1 **G3P** is made, the energy harvest phase only produces ____ the amount of NADH & **ATP**.
 - Unlike normal glycolysis, **EDP** produces ____ by the reduction of **NADP⁺**.



PRACTICE: The Entner-Doudoroff Pathway:

- Converts glucose to pyruvate.
- Can operate aerobically or anaerobically.
- Is an alternative process to the glycolytic pathway.
- All the above are correct.

PRACTICE: The Entner-Doudoroff pathway leads to the formation of:

- ATP.
- Pyruvate.
- NADH.
- NADPH.
- All of the above.