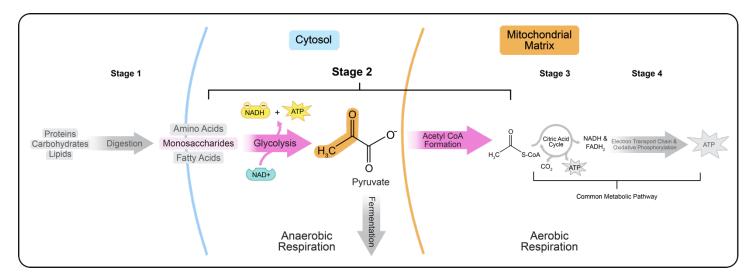
## **CONCEPT: PYRUVATE OXIDATION**

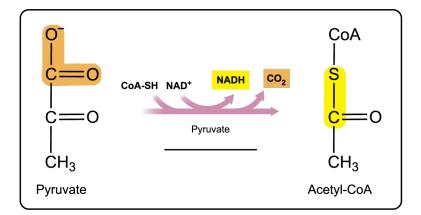
- Recall: 1 glucose is converted to 2 \_\_\_\_\_ molecules through glycolysis pathway.
  - □ Fate of pyruvate depends on the availability of \_\_\_\_\_ in the cells.



## **Aerobic Respiration**

- In presence of \_\_\_\_\_, pyruvate is transported from cytosol to the mitochondrial \_\_\_\_\_.
- Pyruvate is \_\_\_\_\_\_ by pyruvate dehydrogenase to \_\_\_\_\_\_
  - □ 1 NAD+ is reduced to 1 \_\_\_\_\_

□ 1 C atom is lost as



**EXAMPLE:** Which of the following statements is/are correct about pyruvate oxidation?

- a) Pyruvate oxidation takes place outside of the mitochondria.
- b) NADH is oxidized to NAD+.
- c) Requires oxygen as a reactant.
- d) Pyruvate loses 1 C atom in a form of CO<sub>2</sub>.