

## CONCEPT: CITRIC ACID CYCLE

- 1 acetyl- CoA generates 3 NADH, 1 FADH<sub>2</sub>, and 1 GTP/ATP
- The  $\Delta G$  in steps 1, 3, and 4 is considerably negative, so these reactions drive the cycle
- The  $\Delta G$  of steps 2, 5, 6, 7, and 8 is close to 0, so these reactions are readily reversible
- Every turn of cycle, only  $\frac{1}{2}$  the labeled carbons come off as CO<sub>2</sub> due to the randomization of succinate's orientation

