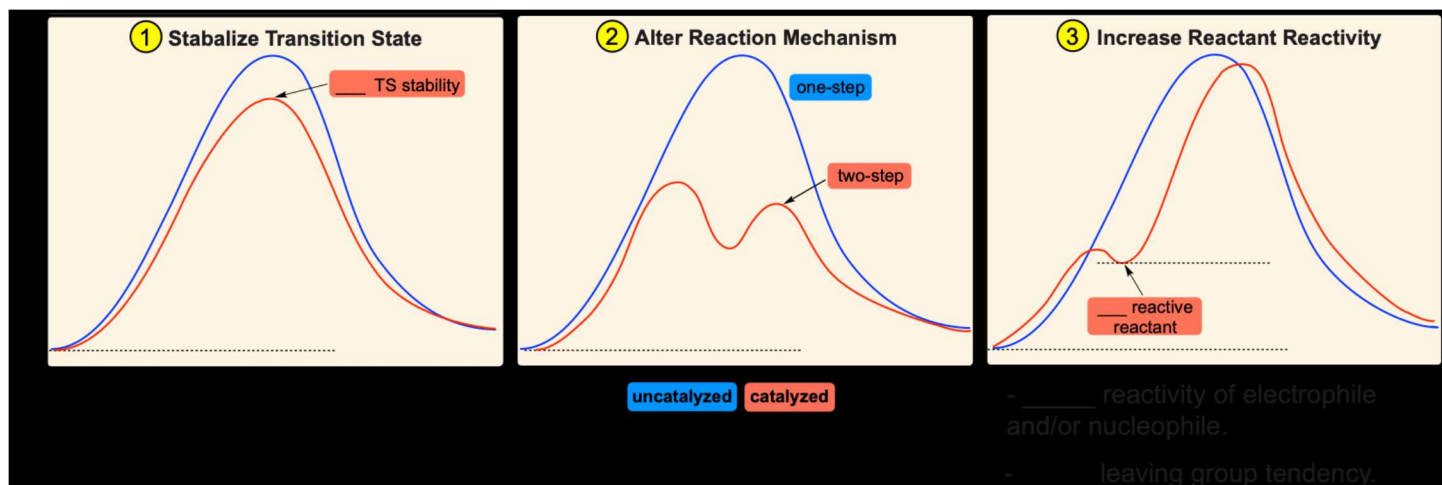


CONCEPT: INTRO TO CATALYSIS

- **Recall: Catalysts** are substances that increase the _____ of a reaction without being _____.
 - Lowers Energy of activation (____) without changing the equilibrium constant (_____).
- Catalysts can lower E_a in ____ ways:



EXAMPLE: Select the best way in which an acid catalyst can increase rate of organic reactions?

- By shifting the equilibrium towards the products, thus resulting in a faster rate.
- By providing a higher energy pathway for the reaction to take, resulting in greater transition state stability.
- By increasing the concentration of reactants, thus resulting in a faster rate.
- By increasing electrophilicity of a reactant, thus decreasing the E_a of the reaction pathway.