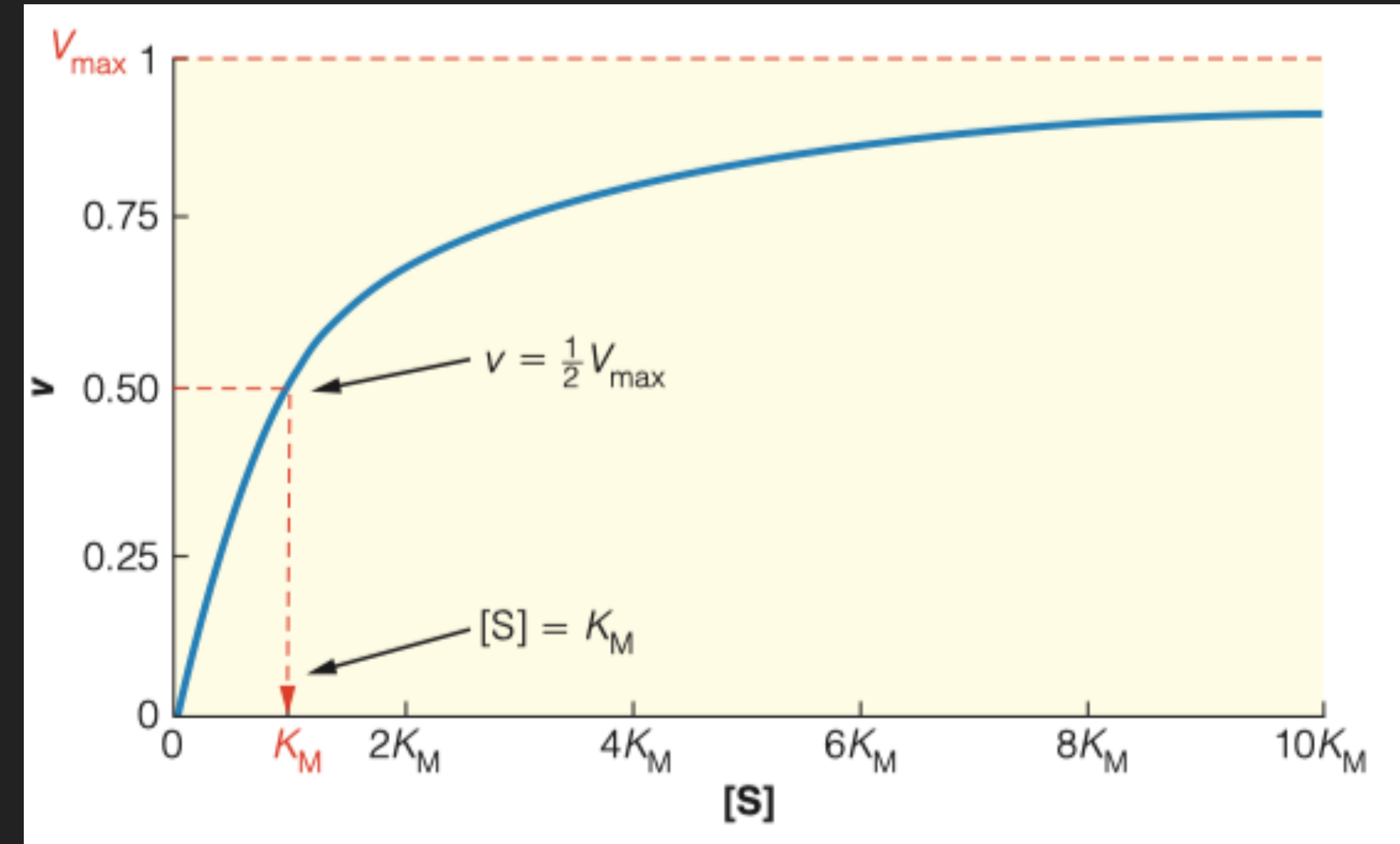


- ▶ Michaelis Constant
- ▶ Affinity of Enzyme for Substrate
- ▶ Ratio of Rate Constants for a Specific Reaction
- ▶ Numerically Equal to the Substrate Concentration at which the reaction velocity has attained *half of its maximum value*
- ▶ *Units of Concentration*

- ▶
$$K_M \approx \frac{k_{-1}}{k_1} = K_S$$



- ▶ Maximum Velocity when all of the available enzyme has bonded to substrate
- ▶ Maximum Velocity of Catalysis
- ▶ Maximum Reaction Rate
- ▶ Full Saturation of the Enzyme
- ▶ Every Single Enzyme has Substrate Attached to It
- ▶ Maximum amount of product that can be made over a given time interval
- ▶ Theoretical concept, we never actually react V_{max}

