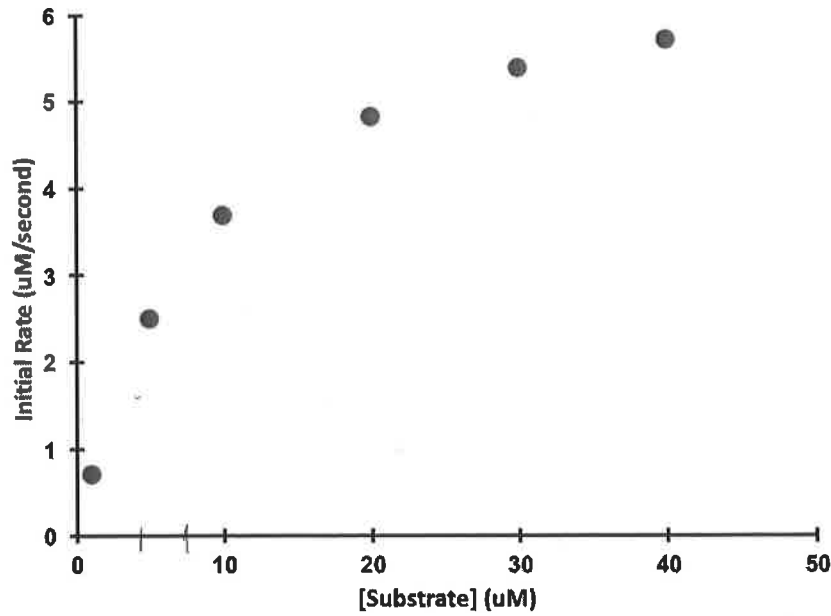


Name: Key

Quiz 16

Imagine that you collect the following kinetic data with 2 nM of enzyme present in each assay.



1. Estimate V_{Max} . Include units.

$$\sim \frac{6 \mu M}{s}$$

2. Estimate K_M . Include units.

$$\sim 7 \text{ to } 8 \mu M$$

3. Estimate k_{cat} . Include units.

$$2 \text{ nM} = 0.002 \mu M$$

$$\frac{\frac{6 \mu M}{s}}{0.002 \mu M} = 3,000 \frac{1}{s}$$