

Chapter 12 – Enzyme Inhibition and Control

Objective	In-text reading	Pre-class materials/activities	In-class materials/activities	Practice problems from text
1. Interpret graphical representations of Michaelis-Menten rate question to characterize the nature of inhibition.	12.2	Ch. 12 – Enzyme Inhibition and Control (Hayden Lecture)	S11 – Enzyme Inhibition	4 th Ed: 25, 27 S11 – Post-Activity
2. Use graphical representations to determine the values of K_M and V_{max} , and K_I	12.2	Ch. 12 – Enzyme Inhibition and Control (Hayden Lecture)	S11 – Enzyme Inhibition	4 th Ed: 29, 30 S11 – Post-Activity
3. Describe the unique chemical environment (geometry and proximity) of the catalytic active site and discuss its effect on reaction rate.	12.2	Ch. 12 – Enzyme Inhibition and Control (Hayden Lecture) Enzyme Catalysis: Not different, Just Better (Article)	S11 – Enzyme Inhibition S12 – Enzyme Problems	S11 – Post-Activity
4. Gain confidence in your ability to solve problems related to enzyme kinetics and catalysis		Enzyme Catalysis: Not different, Just Better (Article)	S12- Enzyme Problems	4 th Ed: Case Study #13 & 15