

## Chapter 20 – Lipid Metabolism Part I - Catabolism

Objective	In-text reading	Pre-class materials/activities	In-class materials/activities	Practice problems from text
1. Describe the relationship between glucose synthesis and fat breakdown.	20.2	Ch 20 – Lipid Metabolism, Part I – Catabolism and Ketone Bodies (Hayden Lecture) What happens when you eat too much (ACS Reactions Video)	S36- Fatty Acid Degradation and Glucose Synthesis	S36 – Post Activity #3, 4 Voet, Voet and Pratt Third Edition: #1, 2, 6, 11, 14 Voet, Voet and Pratt Fourth Edition: #1, 7, 8, 18
2. Discuss beta-oxidation and predict how much ATP can be produced from the breakdown of fatty acids.	20.2	Ch 20 – Lipid Metabolism, Part I – Catabolism and Ketone Bodies (Hayden Lecture)	S36- Fatty Acid Degradation and Glucose Synthesis	S36 – Post Activity #1, 2 Voet, Voet and Pratt Third Edition #4, 7 Voet, Voet and Pratt Fourth Edition: #10, 12, 13, 14
3. Explain what net synthesis of glucose means.	S36	Ch 20 – Lipid Metabolism, Part I – Catabolism and Ketone Bodies (Hayden Lecture)	S36- Fatty Acid Degradation and Glucose Synthesis	Review S36, #1 through 6 from in-class activity section.
4. Examine other factors of fat metabolism.	20.5	Ch 20 – Lipid Metabolism, Part I – Catabolism and Ketone Bodies (Hayden Lecture)	S36- Fatty Acid Degradation and Glucose Synthesis	S36 – Post Activity #3, 4 Voet, Voet and Pratt Third Edition: #15 Voet, Voet and Pratt Fourth Edition: #32
5. Develop the ability to integrate your knowledge.		How does Cystic Fibrosis effect the Pancreas (Supplemental Video)	S36- Fatty Acid Degradation and Glucose Synthesis	

*See additional practice problem set on Sapling Online.*