

Regulating Respiration Questions

- 1. What are the differences between fat & protein metabolism biochemical pathways?**
- 2. A triglyceride can release _____ of ATP, compared with a molecule of glucose.**
 - a. smaller amounts**
 - b. the same amount**
 - c. larger amounts**
 - d. only twice the amount**
- 3. Compare the energy production from 1 molecule of glucose to a 6-carbon fatty acid via aerobic respiration.**
- 3. Picture yourself as an atom of hydrogen in a triglyceride fatty acid tail. You are present in the stored fat of a person who is starving.**
 - a. Trace the biochemical pathways you would be part of as you moved through the process of aerobic cellular respiration. Be as specific as you can in describing your location and how you got there, as well as the molecules of which you are a part.**
 - b. How would your path be different if you were a H in the glycerol back bone?**
 - c. How would your path be different if you were a H a side chain of an amino acid?**