

### Regulating Respiration Questions

1. What are the differences between fat & protein metabolism biochemical pathways?
2. Describe how carbohydrates, fats, and proteins can be interconverted from one to another.
3. Each molecule of fat 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
4. Some organisms excrete ammonia directly; others convert ammonia into other nitrogen-containing compounds, such as  
a. urea or uric acid.   b. carbon dioxide   c. sweat.   d. fat.
5. Picture yourself as an atom of hydrogen tied up in a molecule of fat. 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.