

Name answer key

Date _____

Cellular Respiration

Answer the questions below!

1. How do our bodies (and other organisms) obtain energy for their life functions (name the specific process)?

They breakdown food molecules and extract their energy using a process called cellular respiration.

2. In the above animation example, what are the inputs and outputs of cellular respiration as the bison eats the grass?

The inputs are oxygen and sugar (from the grass). The outputs are ATP (energy molecule), carbon dioxide, and water.

3. What is ATP, and why is it important to organisms?

ATP is the primary energy currency of cells. It is used to fuel the activities of the cell (or the organism).

4. Cellular respiration is basically like which other process, in reverse?

It is like photosynthesis in reverse.

5. What are the three basic steps of cellular respiration?

The three basic steps are glycolysis, the Krebs cycle, and the electron transport chain.