

General Biology
South Sevier High School
Cell Respiration - Stuff you must know

Name _____
Date _____
Per _____

1. Why is the human body around 98.6 degrees?
2. Why does our body temperature sometimes rise (fever) when we get sick?
3. What order does your body use macromolecules?
4. What is the ultimate source of all energy on the Earth?
5. What is the process called that converts solar energy into chemical energy?
6. Write the equation for photosynthesis in Chemistry, then in English.
7. Write the equation for cellular respiration in Chemistry, then in English.
8. What is the definition of Energy?
9. What is the First Law of Thermodynamics?
10. What is the Second Law of Thermodynamics?
11. What is an autotroph?
 - a. What is another name for an autotroph?
 - b. What is an example of an autotroph?
12. What is a heterotroph?
 - a. What is another name for an heterotroph?
 - b. What is an example of a heterotroph?

13. What is metabolism?
14. What is the process called when organic molecules are broken down to release cell energy?
15. What does ATP stand for?
16. What is ATP, and how does it provide the power needed for all cell and body activities?
17. What does Glycolysis do, and where does it happen?
18. How much useable ATP is generated in Glycolysis?
19. What is the purpose of the Kreb's Cycle (also called the Citric Acid Cycle)?
20. Where do the Kreb's Cycle happen?
21. What is made from the Kreb's Cycle (write what they do as well)?
22. The final breakdown of glucose occurs in what system?
23. How much ATP is produced in the Electron Transport System?
24. What is the process called that can break down pyruvate when oxygen is not present (anaerobic conditions)?
25. What types of products are made when yeast do fermentation?
26. What types of products are made when human muscles do fermentation?

