

## Life Science Final Review Sheet

\*\*answers are bold and underlined\*\*

1. Who invented the modern classification system? Linnaeus
2. What is the largest classification level? Kingdom
3. What is an organized way to arrive at a workable solution to a problem? Scientific method
4. What is the term for a question that may be answered by using the scientific method? Scientific problem
5. What is the term for successive stages of life? Life span
6. What is the name of a substance that contains carbon? organic
7. Many algae have this type of organization? colonial
8. What is the term for finding out what is known before experimenting? Background research
9. What is the term for pieces of information a person records during an experiment or survey? data
10. What is a common name? a name that can be used for more than one organism
11. What is the term for an educated guess as to the solution of a problem? hypothesis
12. What is used when you wish to be accurate? Scientific name
13. What is the term for the ability to do work? energy
14. What are life processes that require energy? Movement, growth, reproduction, response
15. What is the name of the experimental group that lacks the experimental variable? Control group
16. What is the term for the factor tested in an experiment? Independent/experimental variable
17. What is the term for an evolutionary phrase to indicate relationship? Common ancestor
18. What is the idea developed from God's command to living things? Biblical kinds
19. What is the term for the condition of being alive? Physical life
20. What is the term for an organelle that releases usable energy for the cell from food molecules? mitochondria
21. What type of cellular respiration do yeast cells carry on in bread making? Anaerobic/alcoholic fermentation
22. What is the term for a series of folded membranes found in the cytoplasm of cells for the movement of substances from one part of the cell to another? Endoplasmic reticulum
23. What is the term for an organelle responsible for packaging substances that are then released from the cell? Golgi body
24. What is an agent of respiration mentioned in the Bible? leaven
25. What is a respiration product that makes muscles sore? Lactic acid
26. What is the term that means oxygen is required? aerobic
27. What cellular structure contains the chromosomes? nucleus
28. Where do the first steps of cellular respiration occur? Cytoplasm/cytosol
29. What organelle stores various types of material in the cell? vacuole
30. What is the term for catalysts used in cellular respiration? enzymes
31. What is the term for an organelle where proteins are assembled? ribosomes
32. What is a useful product of cellular respiration that is not a product? energy
33. In what cellular structures do you find the storage of chlorophyll? chloroplasts
34. What is the term for an organelle that contains enzymes to digest substances that are no longer needed by the cell? Lysosome
35. What is the term for an organelle that contains substances necessary for photosynthesis? chloroplast
36. Must each cell in an organism be able to perform all the functions of the entire organism? No division of labor
37. Does cellular respiration create energy? No (law of conservation of matter and energy)
38. Is anaerobic respiration more efficient than aerobic respiration? No only 2-3 ATP compared to 26-28 ATP
39. How many membranes do chloroplasts have? two
40. Are enzymes involved in photosynthesis? yes
41. Even though cell membranes have one basic design, are there any variations to the design? yes
42. How many membranes do mitochondria have? two