

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**