

Hi Parents,

I am very sorry your child is sick. I do hope they feel better soon. In an effort for them to return to school fully prepared, I have attached the answers to the study guide on Animal Systems. I have also attached the answers to my quiz. These two documents will help your student to be successful on my test. Please have your student complete the work without the answers, and then you help them check their work when they are finished. We had a test on 2/12. Your student will be allowed ample time to make-up their test upon their return. We will be moving on to Dairy Cattle next, which I have also attached the notes for that. Your student can begin working on Dairy Cattle once they have finished the work for animal systems. Thank you for being proactive in gathering your child's work. Please wish them well, and let them know I am looking forward to their return when they are healthy and no longer contagious 😊.

Thank you,

Mrs. Kim Parr

Animal Systems Study Guide Answers

1. The cell is the most basic unit of life.
2. Anatomy is the study of the form, shape and appearance of the animal.
3. Physiology is the study of the organ systems and cells of an animal.
4. Cell → Tissue → Organ → Organ System → Organism
5. Food, water and oxygen
6. *Interphase*: occurs before mitosis begins; Chromosomes are copied (# doubles)
Prophase: 1st step in Mitosis ; Centrioles appear and begin to move to opposite end of the cell; Spindle fibers form between the poles.
Metaphase: 2nd step in Mitosis; Chromatids attach to the spindle fibers.
Anaphase: 3rd step in Mitosis; Chromatids separate and begin to move to opposite ends of the cell.
Telophase: 4th step in Mitosis; Two new nuclei form. Chromosomes appear as chromatin; Mitosis ends.
Cytokinesis: occurs after mitosis; create two daughter cells
7. Wool production; Muscle gains; Hair production; egg production; milk production
8. Providing food and water; cleaning bedding; changing shavings; cleaning animals
9. To provide structure and support and to allow movement and locomotion for the organism.
10. Voluntary and Involuntary
11. Cardiac, Smooth and Skeletal
12. The brain stem is where most of the functions to maintain life takes place.
13. Veins
14. To provide the blood with oxygen
15. To filter the waste from the blood
16. Monogastric System
17. An organ is formed.
18. Prehension is to gather food.
19. A system with one stomach and four compartments.
20. Rabbits and horses
21. Organ Systems
22. Cells are the basic unit of life. When cells work together they become tissue. When alike tissue works together they form organs. When organs work together they operate organ systems. When all the systems work together they operate an organism.
23. Hair/Wool; Produce Milk; Warm blooded; Give birth to live young; vertebrate
24. Interphase, Prophase, Metaphase, Anaphase, Telophase, Cytokinesis
25. An animal that eats primarily plant products.

Quiz Answers

Multiple Choices

- | | |
|------|------|
| 1. C | 4. B |
| 2. A | 5. D |
| 3. C | 6. D |
| | 7. B |
| | 8. D |

9. A
10. B
11. A
12. A
13. C
14. C
15. A
16. D
17. C
18. C
19. C
20. D

Matching

1. B
2. C
3. D
4. A

Labeling

1. Anaphase
2. Interphase
3. Metaphase
4. Prophase
5. Telophase