

8th Grade Science

Human Body Systems & Health Book

Chapter Two: Circulation & Respiration **Section Two-Four** (pg 36-47)

Answer each of the following questions on a piece of notebook paper, in a complete sentence, restating the question in your answer. Failure to follow these rules will result in the student having to rewrite the assignment to earn their points.

1. How much blood does an adult human have?
2. What four things make up blood?
3. Why is blood red?
4. What do platelets do?
5. How does blood help regulate body temperature?
6. Why does your face turn red when you blush?
7. What types of blood are there?
8. If someone receives the wrong type of blood, what happens to their blood?
9. Why are people with type O blood called the universal donors?
10. Why are people with type AB blood called the universal receivers?
11. When someone is sick, they say their glands are swollen and point to their neck area. Why would they do this?
12. What are three jobs of the spleen?
13. Could you live without a spleen? Explain.
14. What do the tonsils do?

15. One cubic millimeter of blood contains 5 million RBCs and 10,000 WBCs. How many times more RBCs are there than WBCs?
16. Why is it important that lymphatic tissue is spread throughout the body?
17. Describe the two parts of respiration.
18. Using your previous knowledge of how air pressure works, explain how air moves into your lungs.
19. Why do we breathe?
20. Describe how you get the oxygen you breathe to where it's going and explain how it is used.
21. Name three respiratory diseases.
22. Total lung capacity (TLC) is about 6 Liters. A person can exhale about 3.6 Liters. What percentage of TLC cannot be exhaled?