

Nova's Human Body Discovery Log

Learning objective: To identify and name the main parts of the human circulatory system and describe the functions of the heart, blood vessels, and blood.

Nova the owl is helping us explore the human body! Use this template to record your research on the circulatory system. Choose a reliable science textbook or classroom resource to help you fill in the boxes with accurate information. Write in full sentences and check your technical vocabulary.

Word bank: circulatory · heart · oxygen · nutrients · arteries · veins · capillaries · carbon dioxide

1. The Heart: Explain the primary function of the heart within the human circulatory system. (2 marks)

2. Blood Vessels: Describe the differences between arteries and veins in terms of how they transport blood. (3 marks)

3. Gas Exchange: Explain what happens to oxygen and carbon dioxide when blood travels through the capillaries. (3 marks)

4. Lifestyle Factors: Describe one way that exercise affects the heart and the circulatory system. (2 marks)

5. The Big Picture: Why is the circulatory system essential for the survival of the human body? (3 marks)

Extension challenge: Research what happens to the heart rate of an athlete compared to a non-athlete during intense exercise. Present your findings as a short paragraph using the word bank provided.