Nova’s Circulatory System Sketchbook

Learning objective: To identify and label the main parts of the human circulatory system and understand the role of the heart, blood vessels, and lungs.

Follow the drawing prompt to illustrate the human circulatory system. Use the word bank to label your diagram accurately. Ensure your lines are neat and connect directly to the correct organ or vessel.

Draw: Draw a simplified outline of a human torso. Inside the chest cavity, draw a heart in the centre. Draw two lungs on either side of the heart. Use red lines to represent arteries carrying oxygenated blood away from the heart, and blue lines to represent veins carrying deoxygenated blood back towards the heart. Sketch a fine network of purple lines (capillaries) connecting the two systems. Keep the style scientific and clear, similar to a textbook diagram.

Label words: Heart · Lungs · Arteries · Veins · Capillaries · Oxygenated blood · Deoxygenated blood

Steps:

1. Identify the primary organ responsible for pumping blood throughout the entire body.
2. Explain the difference between an artery and a vein in terms of the direction they carry blood.
3. Why is it important for blood to visit the lungs before travelling to the rest of the body?
4. Label the smallest blood vessels on your diagram where gas exchange occurs.

5. If you were to exercise, why does your heart rate increase? Relate this to the needs of your muscles.