

Name: \_\_\_\_\_

Class: \_\_\_\_\_

**WORKSHEET**

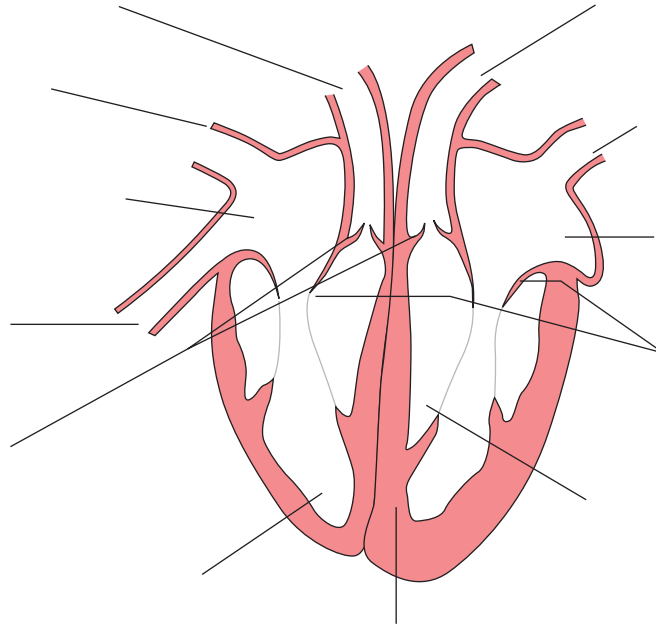
# 7.1 The circulatory system

Using the information in Chapter 7 of *Human Perspectives Units 1 & 2* and other sources available to you, complete the following activities.

1 Make a summary of the components of blood using the table below.

Component	Alternative name (if any)	Function	Lifespan	Diagram
Red blood cells				
White blood cells				
Platelets				
Plasma				

- 2 Label the diagram of the heart. In red pencil, trace the pathway of oxygenated blood through the heart. In blue pencil trace the pathway of deoxygenated blood through the heart.



- 3 Make up a story about Robbie the Red Blood Cell, who starts a journey from the left ventricle of the heart, travelling throughout the body delivering oxygen to the cells, collecting carbon dioxide along the way, and ending up where he started from, to begin the journey again. In your story, highlight the main 'places' that Robbie visits.

4 Complete the table below comparing and contrasting the three main types of blood vessels.

	Arteries	Veins	Capillaries
Structure of walls			
Pressure in vessel			
Where the blood is transported to and from			
Valves present or not			

- 5 Explain what happens during vasoconstriction and vasodilation. Include in your answer what causes these changes to take place and why it is important for the body to be able to control the blood vessel diameter. Draw a simple diagram to illustrate each occurrence.