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the circulatory system is a network consisting of blood vessels and the heart this network supplies tissues in the body with oxygen and other nutrients transports hormones and removes unnecessary waste products the main function of the circulatory or cardiovascular system is to deliver oxygen to the body tissues whilst simultaneously removing carbon dioxide produced by metabolism oxygen is bound to molecules called haemoglobin that are on the surface of the red blood cells in the blood the circulatory system cardiovascular system pumps blood from the heart to the lungs to get oxygen the heart then sends oxygenated blood through arteries to the rest of the body the veins carry oxygen poor blood back to the heart to start the circulation process over the circulatory system is a system of organs that includes the heart blood vessels and blood which is circulated throughout the entire body of a human or other vertebrate learn more about how the circulatory system works what it consists of and the diseases that can affect your heart and blood vessels view an interactive 3d model of the circulatory system and its major components including the heart also discover conditions that affect the circulatory system circulatory system system that transports nutrients respiratory gases and metabolic products throughout a living organism permitting integration among the various tissues this little pump is the size of your clenched fist and it never stops watch these videos to learn more about how the heart works blood flow in arteries and veins blood pressure and lymphatics the circulatory system also known as the cardiovascular system consists of the organs and fluids that transport materials like oxygen and nutrients throughout the body all vertebrates have a closed circulatory system in which the blood plasma and cells remain within blood vessels the circulatory system also known as the cardiovascular system is a simple loop which starts and ends with your heart it is a closed system meaning blood does not enter or leave the system during its journey from your heart to your body and back again the circulatory system is an organ system that permits blood to circulate and transport nutrients such as amino acids and electrolytes oxygen carbon dioxide hormones and blood cells to and from the cells in the body to provide nourishment and help in fighting diseases stabilize temperature and ph and maintain homeostasis learn about how the heart works how blood flows through the heart where the blood goes after it leaves the heart and what your heart is doing when it makes the sound lub dub about khan this extensive network supplies the cells tissues and organs with oxygen and nutrients while removing carbon dioxide and waste the byproducts of respiration the circulatory system can be thought of as a highway system that runs throughout the body the cardiovascular system consists of the heart veins arteries and capillaries these components make up two circulatory systems the systemic and pulmonary circulatory systems heart rotate the 3d model to see how the heart's valves control blood flow between heart chambers and blood flow out of the heart the heart is a hollow muscular organ that pumps oxygenated blood throughout the body and deoxygenated blood to the lungs this key circulatory system structure is comprised of four chambers the human circulatory system consists of a network of arteries veins and capillaries with the heart pumping blood through it its primary role is to provide essential nutrients minerals and hormones to various parts of the body the circulatory system also known as the cardiovascular system is a vast network of organs and blood vessels that acts both as a delivery and waste removal system for the body circulatory system architecture the circulatory system is effectively a network of cylindrical vessels the arteries veins and capillaries that emanate from a pump the heart in all vertebrate organisms as well as some invertebrates this is a closed loop system in which the blood is not free in a cavity about transcript learn how blood flows through the heart and understand the difference between systemic and pulmonary blood flow rishi is a pediatric infectious disease physician and works at khan academy created by rishi desai questions tips thanks want to join the conversation sort by top voted gabby 12 years ago key facts the circulatory system is made up of the heart and blood vessels working together the role of the circulatory system is to move nutrients hormones oxygen and other gases to your body's organs muscles and tissues to use for energy growth and repair

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