Cardiovascular System		Arteries	Veins	Capillaries	HARRINER SCHOO
-The functions of the cardiovascular system (3) -Structure of the cardiovascular system -Structure of arteries, capillaries, and veins -Vascular shunting	Characteristics	Carry blood away from the heart. Carry oxygenated blood (apart from pulmonary artery). Thick walls, elastic, carry blood at high pressure.	Carry blood towards the heart. Carry deoxygenated blood (apart from the pulmonary vein). Thinner walls than arteries and less elastic, carry blood at a lower pressure.	1cell thick walls to allow for quick gaseous exchange. Low blood pressure in capillaries.	
-Components of blood (RBC, WBC, platelets, plasma)	Importance in sport	Carry blood away from the heart to the working muscles that need oxygen.	Carry deoxygenated blood back to the heart for it to be pumped to the lungs and be re-oxygenated.	Allow for gaseous exchange – oxygenated blood delivered to the working muscles.	
Clot the blood (platelets) Functions of the Cardiovascular System Transport of nutrients (oxygen, carbon		Vasodilation: vein increases in size to allow for increased blood flow (increase in the size		Pulmonary Circuit: Moves	
Components of the blood: White blood cells (WBC): Fight infection. Red blood cells (RBC): Carry oxygen. Platelets: Clot the blood. Plasma: Helps transport nutrients.During exercise -Blood flow is in muscles) -Blood flow is d (digestive system -Vasodilation (in increased blood -Vasoconstriction)		creased to active areas (we ecreased to inactive areas	orking ows for n)	Right Right Putronary Valve Tricuspid Valve Right Ventricle Ventricle Ventricle Metronary Norte Ventricle	eart and lungs. rt and rest of body