The Heart

Organ that pumps blood around the body in a double circulatory system

Right ventricle
- pumps blood to the lungs where gas exchange takes place
- pumps blood around the rest of the body.

Left ventricle
- aorta - main artery, supplying oxygenated blood to the circulatory system
- vena cava - large vein carrying deoxygenated blood into the heart
- pulmonary artery - artery carrying blood from the right ventricle to the lungs for oxygenation
- pulmonary vein - vein carrying oxygenated blood from the lungs to the left atrium
- coronary arteries - arteries supplying blood to the heart

Blood Vessels
- controlled by a group of cells in the right atrium
- artificial pacemakers - used to correct irregularities in the heart rate

Heart Rate

Blood vessels of the body
- arteries - muscular-walled tubes transporting oxygenated blood from the heart to all parts of the body
- veins - tubes carrying oxygen-depleted blood towards the heart
- capillaries - fine branching blood vessels