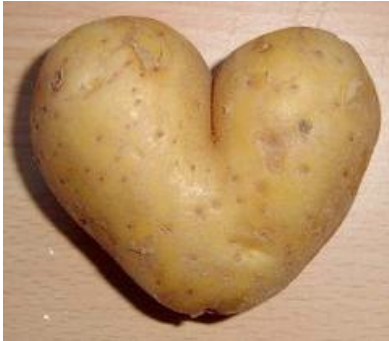
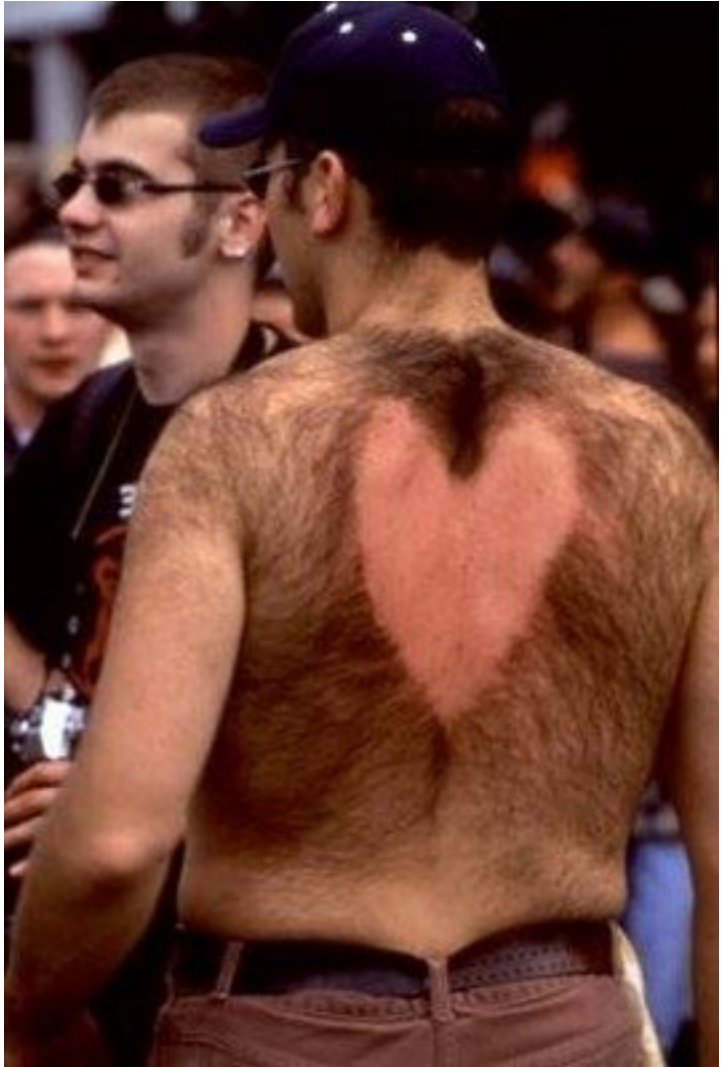
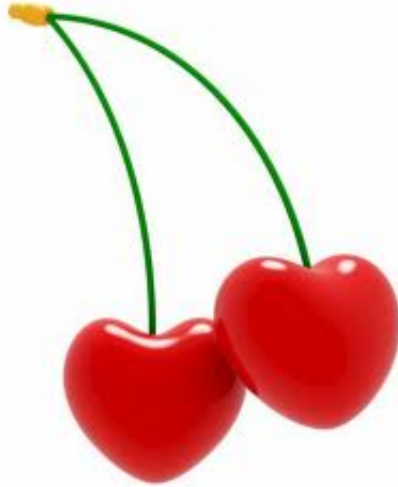
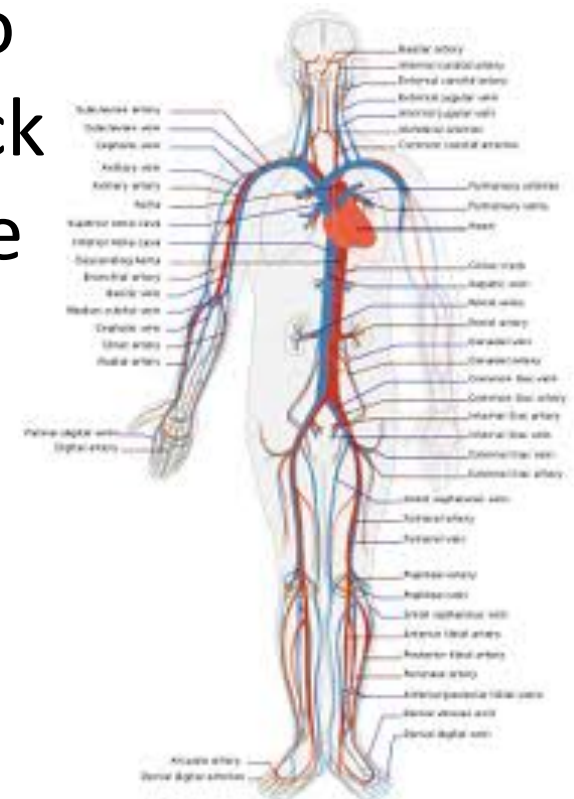


Circulatory System



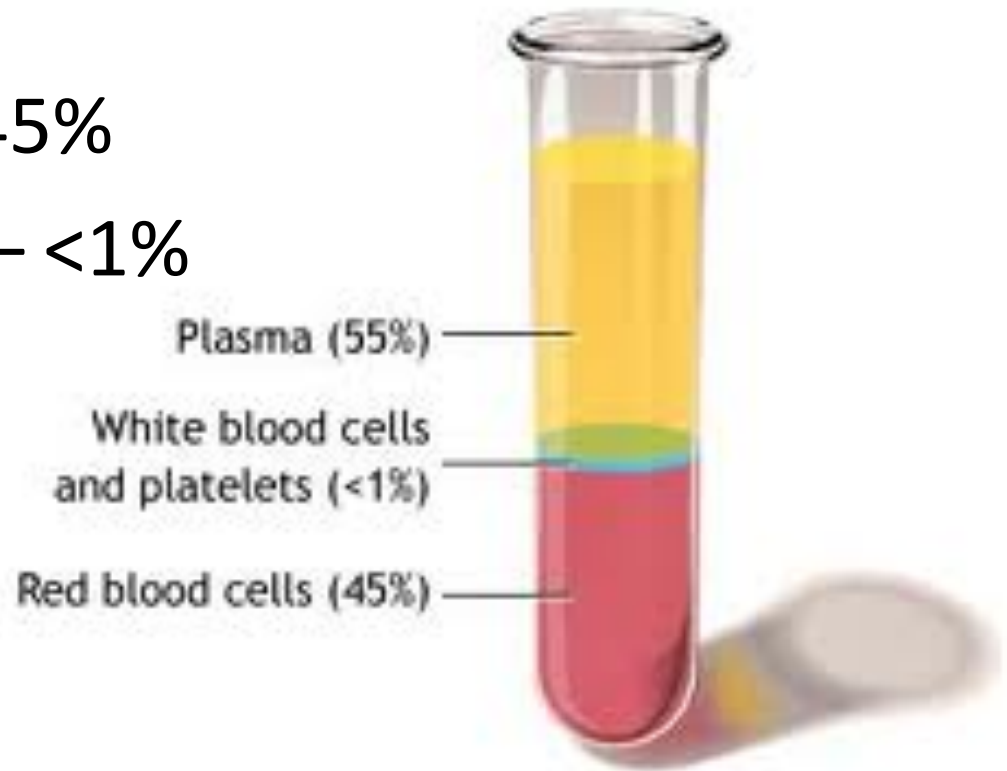
Circulatory System

- Consists of the heart, blood, and blood vessels.
- Moves blood from your heart to every part of your body and back again. It takes about one minute for all of your blood to be pumped through your body.



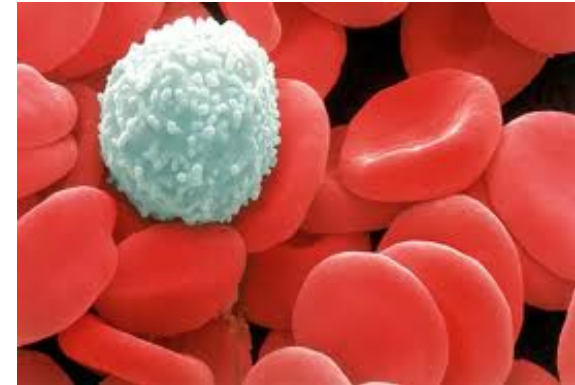
Blood

- Container for oxygen and nutrients for your cells.
- plasma – 55%
- Red Blood Cells – 45%
- White Blood Cells – <1%
- Platelets – <1%



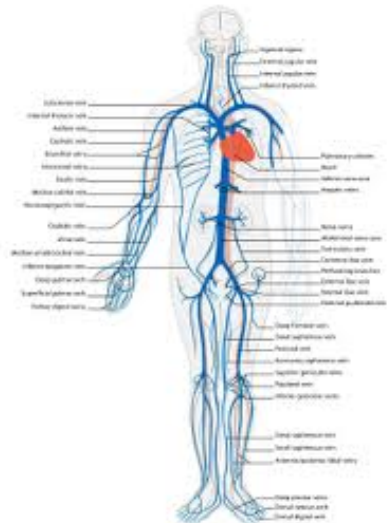
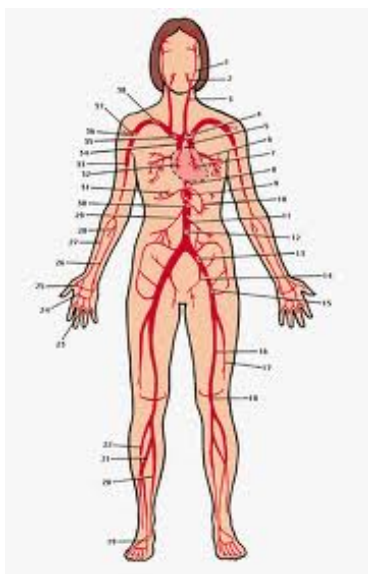
Parts of Blood

- Red blood cells – carry oxygen for your cells.
- White blood cells - keep you from getting sick. Bigger than red blood cells.
- Platelets – help your blood clot if you get cut.
- Plasma – clear substance made almost completely of water but includes other important chemicals



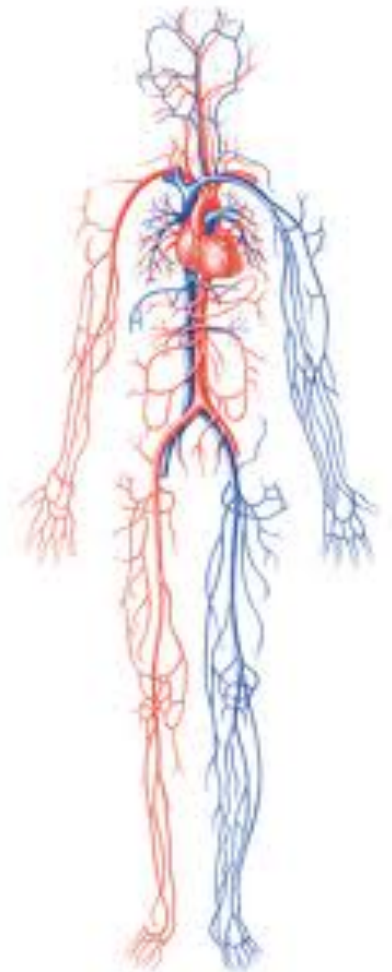
Blood Vessels

- Arteries – carries blood away from the heart
- Capillaries – small blood vessels that exchange nutrients and gases with cells.
- Veins – carries blood back to the heart



Blood Flow

1. Blood leaves your heart through the aorta and then into your arteries
2. Blood goes into smaller blood vessels called capillaries
3. Blood goes from the capillaries into your veins and back to your heart.



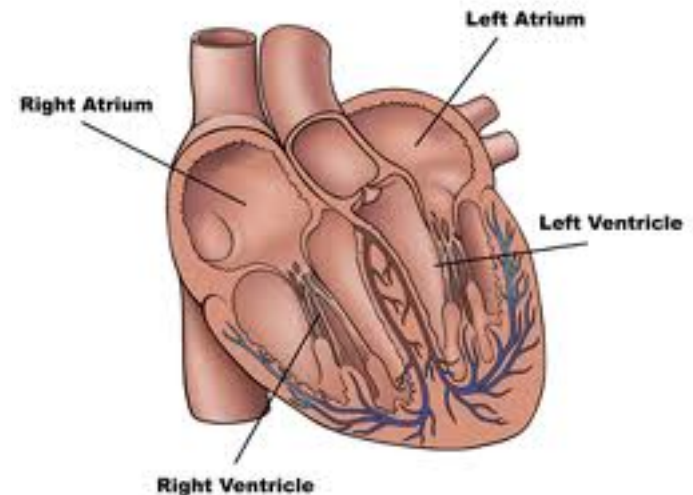
Heart

- Muscle that pumps blood through your body to provide oxygen and nutrients to your cells and to remove waste.
- About the size of your fist.
- Never stops.



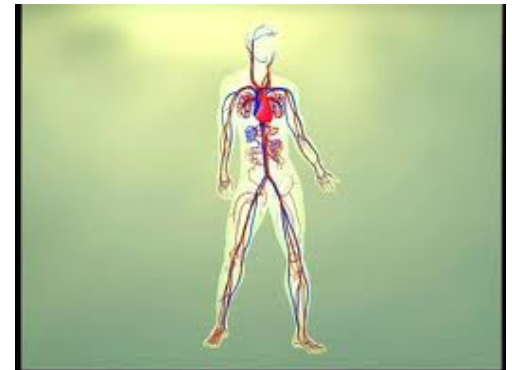
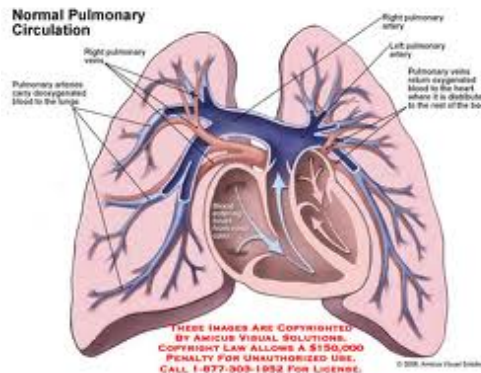
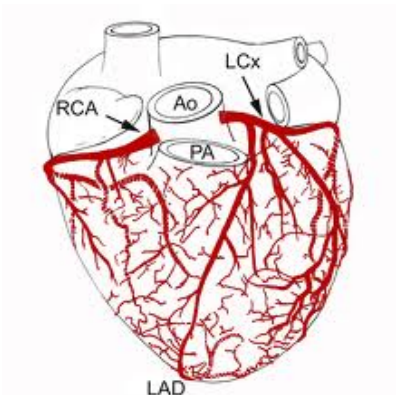
Parts of the Heart

- Made of two pumps. Each pump has an atrium and a ventricle.
- The atrium pumps blood into the heart, the ventricle pumps blood back out of the heart.
- The pump on the left-side sends blood to the lungs, the pump on the right-side sends blood to the rest of the body.



Types of blood flow

- Coronary circulation – the flow of blood within the heart itself.
- Pulmonary circulation – the flow of blood through the heart to the lungs.
- Systemic circulation – the flow of blood to all of the organs and tissues in your body.



High Blood Pressure

- Blood pressure is the force of blood on your blood vessels.
- Hypertension is when your heart has to work too hard to push the blood around your body.

