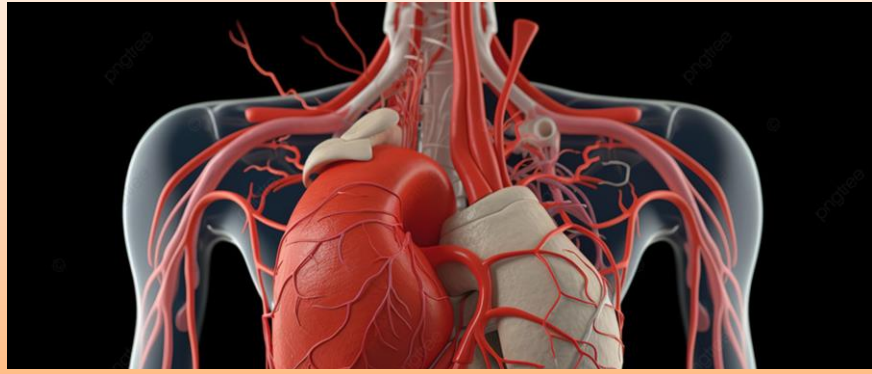


The Human Body: Systems



Key Concepts:

Biology

Sticky Knowledge

- The circulatory system transports oxygen, nutrients and water around the body.
- The heart pumps blood around the body.
- Oxygen is breathed into the lungs where it is absorbed by the blood.
- Muscles need oxygen to release energy from food to do work.
- Oxygen is taken into the blood in the lungs; the heart pumps the blood through blood vessels to the muscles; the muscles take oxygen and nutrients from the blood.
- Diet, exercise, drugs and lifestyle have an impact on the way our bodies function.
- Our bodies need a controlled amount of energy provided by our food.
- Drugs can have positive and negative effects on the body.
- Alcohol and tobacco can have a negative impact on our health.
- Our bodies need a controlled amount of energy provided by our food.

Vocabulary

- Circulatory System - the system that contains the heart and the blood vessels and moves blood throughout the body. This system helps tissues get enough oxygen and nutrients, and it helps them get rid of waste products.
- Oxygenated Blood – supplied, treated or enriched with oxygen. Oxygenated blood travels away from the heart.
- Deoxygenated Blood – without oxygen. Deoxygenated blood travels back to the heart to be resupplied with oxygen.
- Respiration – breathing; the intake of oxygen and the release of carbon dioxide.
- Blood Vessels – a tube through which the blood circulates in the body. Blood vessels include a network of arteries, arterioles, capillaries and veins.
- Arteries – the arteries are the blood vessels that deliver oxygen-rich blood from the heart to the tissues of the body.
- Veins – any of the tubes forming part of the blood circulation system of the body, carrying in most cases oxygen-depleted blood towards the heart.
- Pulmonary – relating to the lungs.
- Valve – valves in the heart help to prevent the backward flow of blood.
- Supplements – something in food that helps people, animals and plants live and grow.