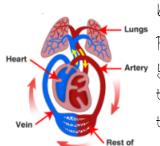
Science Knowledge Map - Summer 1 - Body Pump (animals including

awau



CIRCULATORY SYSTEM

- is a group of organs and vessels which transport



blood around the body. The heart
pumps blood to the lungs to get oxanory ygen. The oxygenated blood is
then pumped around the body. Arteries carry oxygenated blood

Capillaries are the smallest blood vessels in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place. arteries veins Arteries carry Veins carry capillaries oxygenated deoxygenated blood away blood toward from the the heart. heart.

Components of blood Red blood cells (Plasma // Carry fresh oxygen through the body and remove carbon Transports nutrients. hormones, and proteins. It is a dioxide. Red blood cells make up about 40 to 45% of blood. yellow liquid that makes up about 55% of the body's blood volume. White blood cells 🥮 🥮 Part of the body's immune system, detect and fight viruses Platelets and bacteria. There are five major Form clots to stop bleeding. types of white blood cells, and they make up less than 1% of Platelets make up less than 1% of blood. blood.

vocabulary

Círculatory Sys-	- the parts of an animal's body comprising the heart, veins, capillaries and
tem	arteries.
Heart	– muscular organ that pumps blood through the body.
Veins	– blood vessels that carry blood towards the heart.
Artery	- blood vessels that deliver oxygen-rich blood from the heart to the tissues of the body.
Oxygen	- a chemical element which animals need to survive.
Blood vessels	- part of the circulatory system that carries blood (a vein, artery or capillary).
Capillary	- very thín blood vessel.
Nutrients	- a source of nourishment that gives energy.
Deoxygenated blood	is blood where most of the oxygen has already been transferred to the rest of the body.
Oxygenated blood	Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body

De-oxygenated blood blood blood blood blood blood

The Heart Y

our heart is a very strong muscle and plays an important part in being healthy. It keeps all the blood in your circulatory system flowing. Your heart first pumps blood to your lungs. Here, the blood picks up oxygen from the air that you have breathed in. The blood (carrying oxygen) then travels back to your heart. The heart gives the blood a second push. This time, it's sent all around the body to the various organs and tissues.