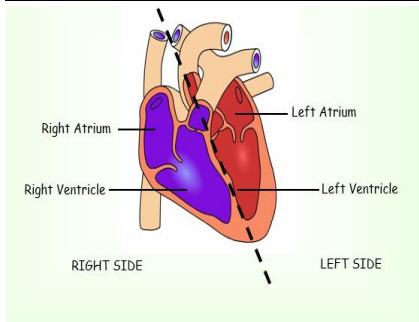


Knowledge Organiser

Year: 6	Term: Spring 1	Topic: Animals including humans Biology
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Vocabulary	Meaning
cells	make up all living tissues of the body
platelets	are cells which help your blood clot when you are cut
plasma	is the liquid part of the blood and is 92% water
nutrients	something which provides nourishment and is essential to life
atrium	upper chambers of the heart from which blood is passes to the ventricles
ventricle	a chamber of the heart which receives blood
valve	part of the heart which acts like a door letting blood flow from one part of the heart to another.
artery	a tube which carries oxygenated blood to the heart
vein	a tube forming part of the blood circulation system
capillary	the smallest type of blood vessels
cholesterol	a substance which increases the risk of a heart attack
diabetes	when the body cannot produce insulin
pulse	the rhythmic pumping of blood through your arteries.
addiction	something you/ your body cannot do without



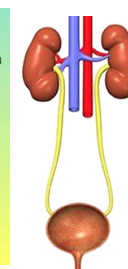
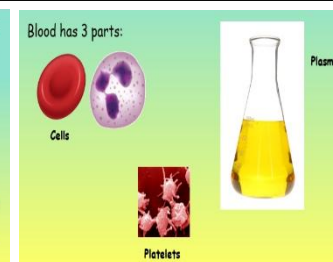
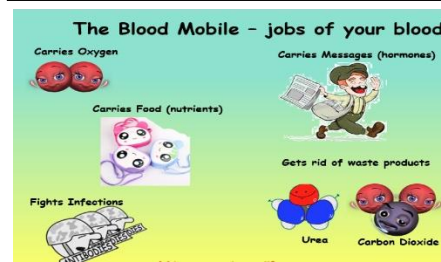
The left-hand side of the heart pumps oxygenated blood all the way around the body. The right-hand side pumps deoxygenated blood to the lungs.

Blood is made up of three parts – cells, platelets, and plasma.

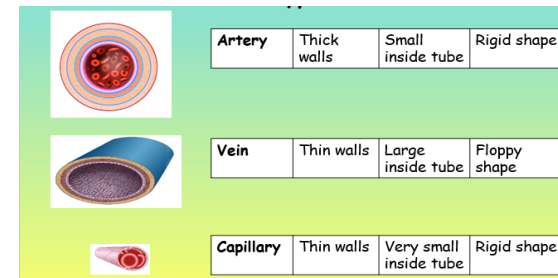
Cells - We have red blood cells which carry oxygen and white blood cells which fight infections.

Plasma - The liquid part of blood - carries DISSOLVED substances. Nutrients (e.g. glucose, protein, carbohydrates. Hormones (messages). Waste products, carbon dioxide and urea.

Platelets - Tiny fragments of blood cells which make blood clot at wound sites.



There are two transport systems in the body. The kidneys transport and filter water. The waste is urine.



Arteries	Take oxygenated blood AWAY from the heart
Veins	Take deoxygenated blood BACK to the heart
Capillaries	Allow oxygen to diffuse ("seep") out of blood into the body tissues.

Food is broken down into nutrients to provide energy to all cells in your body. Digested food is carried around the body in the blood stream.

Learning Objectives

Lesson 1	I can describe the functions of blood.		
Lesson 2	I can describe the functions of the heart.		
Lesson 3	I can identify and name the main parts of the human circulatory system and describe the functions of blood vessels.		
Lesson 4	I can describe the ways in which nutrients and water are transported within animals, including humans.		
Lesson 5	I can show what I have learnt.		