

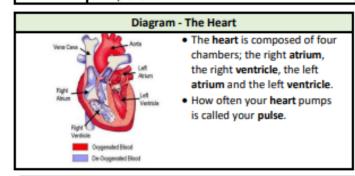
<u>Hapton CE Methodist Primary School — Knowledge Organiser</u> Science Unit (Biology) – Animals incl humans –circulatory system(yr6)



What should I already know?

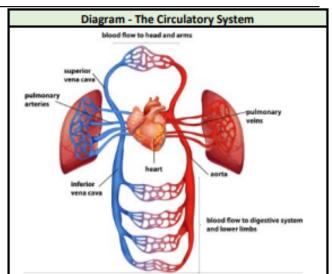
- · Which things are living and which are not.
- Classification of animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates)
- Animals that are carnivores, herbivores and omnivores.
- Animals have offspring which grow into adults.
- The basic needs of animals for survival (water, food, air)
- · The importance of exercise, hygiene and a balanced diet.
- Animals get nutrition from what they eat.
- Some animals have skeletons for support, protection and movement.
- The basic parts of the digestive system.
- The different types of teeth in humans.
- Respiration is one of the seven life processes.
- The life cycle of a human and how we change as we grow.

What will I know by the end of the unit? What is the The circulatory system is circulatory made of the heart, lungs system? and the blood vessels. Arteries carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood from the body to the Nutrients, oxygen and carbon dioxide are exchanged via the capillaries. Choices · Some choices, such as smoking and drinking that can alcohol can be harmful to our health. harm the Tobacco can cause short-term effects such as circulatory shortness of breath, difficulty sleeping and loss of system taste and long-term effects such as lung disease, cancer and death Alcohol can cause short-term effects such as addiction and loss of control and long-term effects such as organ damage, cancer and death Why is exercise so · tone our muscles and reduce fat important? increase fitness · make you feel physically and mentally healthier strengthens the heart improves lung function improves skin



How does your pulse change with exercise? What is the most efficient way of presenting this data? Which exercise produces the fastest pulse? How would you make

this a fair test?



- The right atrium collects the deoxygenated blood from the body, via the vena cava. It sends the blood to the right ventricle.
- The right ventricle pumps the deoxygenated blood to the lungs.Here the blood picks up oxygen and disposes of carbon dioxide.
- The lungs send oxygenated blood back to the left atrium which pumps it to the left ventricle.
- The left ventricle pumps the blood to the rest of the body, via the aorta.

Vocabulary	
the main artery through which blood leaves your	
aorta	heart before it flows through the rest of your body
arteries	a tube in your body that carries oxygenated blood from your heart to the rest of your body
atrium	one of the chambers in the heart
blood	the narrow tubes through which your blood flows.
vessels	Arteries, veins and capillaries are blood vessels.
capillaries	tiny blood vessels in your body
carbon dioxide	a gas produced by animals and people breathing out
	the system responsible for circulating blood through
circulatory	the body, that supplies nutrients and oxygen to the
system	body and removes waste products such as carbon
	dioxide.
deoxygenated	blood that does not contain oxygen
heart	the organ in your chest that pumps the blood
	around your body
lungs	two organs inside your chest which fill with air when
	you breathe in. They oxygenate the blood and remove carbon dioxide from it.
nutrients	substances that help plants and animals to grow
	a part of your body that has a particular purpose
organ oxygen	a colourless gas that plants and animals need to
	survive
oxygenated	blood that contains oxygen
pulse	the regular beating of blood through your body.
	How fast or slow your pulse is depends on the
	activity you are doing.
respiration	process of respiring; breathing; inhaling and
	exhaling air
veins	a tube in your body that carries deoxygenated
	blood to your heart from the rest of your body
vena cava	a large vein through which deoxygenated blood
	reaches your heart from the body
ventricle	one of the chambers in the heart
via	through