Edward Peake Church of England Middle School



Topic: Animals including humans

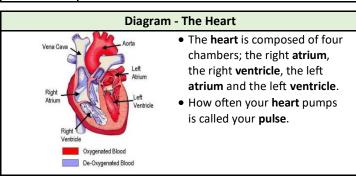
Year: 6

Strand: Biology

What should I already know?

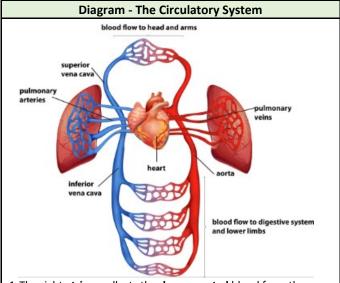
- Which things are living and which are not.
- Classification of animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates)
- Animals that are carnivores, herbivores and omnivores.
- Animals have offspring which grow into adults.
- The basic needs of animals for survival (water, food, air)
- 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® heart. 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 can: 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



ı	Investigate!						
	How does your pulse change with exercise? What is the most						
	efficient way of presenting this data?						
ı							

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.
- 2. The right **ventricle pumps** the **deoxygenated** blood to the **lungs**. Here the blood picks up **oxygen** and disposes of **carbon dioxide**.
- 3. The **lungs** send **oxygenated** blood back to the left **atrium** which pumps it to the left **ventricle**.
- 4. The left **ventricle** pumps the blood to the rest of the body, **via** the **aorta**.

Vocabulary									
aorta	the main artery through which blood leaves your								
40.14	heart before it flows through the rest of your body								
arteries	a tube in your body that carries oxygenated blood								
urteries	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								
Heart	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								
organ	a part of your body that has a particular purpose								
oxygen	a colourless gas that plants and animals need to								
	survive								
oxygenated	blood that contains oxygen								
	the regular beating of blood through your body.								
pulse	How fast or slow your pulse is depends on the								
	activity you are doing.								
respiration	process of respiring; breathing; inhaling and								
	exhaling air								
voins	a tube in your body that carries deoxygenated								
veins	blood to your heart from the rest of your body								
vona cava	a large vein through which deoxygenated blood								
vena cava	reaches your heart from the body								
ventricle	one of the chambers in the heart								
via	through								

Topic: Animals including	Year: 6		Strand: Biology			
Question 1: The heart, blood vessels and lungs make up the	Start of unit:	End of unit:	Question the proce	7: Explain what is happe	ning at each	stage of
digestive system			·	, An		
circulatory system				lungs]	
skeletal system				2	3	
muscular system				45		
Question 2: Which one of these	Start of	End of	1	_ 🥸 ⊆	4	
is not an organ?	unit:	unit:		heart		
heart				1	4	
lungs				ı A		
blood]	⊢ N ←	_	
O colting 2. The constant of the line	<u> </u>		.	body		
Question 3: The most effective way to show the change in	Start of	End of				
pulse rate over time is by using	unit:	unit:	1			
a		GG .				
picture						
bar chart			2			
pie chart						
line graph						
Overhan A. Ven and			3			
Question 4: You are investigating which exercise						
yields the highest heart rate.	Start of	End of				
How can you ensure a fair	unit:	unit:				
test? Tick two.			4			
treat everybody the same						
measure the same subject's						
pulse before, during and after each exercise.			,	n 8: Which of these can	Start of	End of
ensure the starting heart rate				r bodies? Tick two.	unit:	unit:
is the same before each			smoking all drugs alcohol			
exercise						
complete each exercise			exercise			
without resting in between.			· •			
Question 5: The veins carry	Start of	End of		9: The function of the	Start of	End of
blood.	unit:	unit:		to provide the body	unit:	unit:
deoxygenated	Gille.	Giller		with(tick three)		
oxygenated			nutrients water			
blue				carbon dioxide		
Side			oxygen	MOXIGE		
Question 6: Tick TWO boxes					<u> </u>	
below to show the two	Start of	End of		n 10: Arteries, veins	Start of	End of
activities that would increase	unit:	unit:	and capillaries are examples unit:			
pulse rate the most.			of blood			
reading a book playing football			blood ve	ccolc		
drinking water			blood ty			
going for a walk			nutrient			
U U 			i nument	ס	Ī	