Topic: Animals including humans

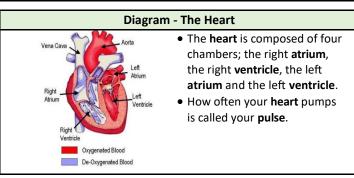
Year: 6

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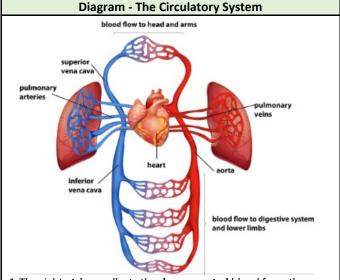
What should I already know?

- 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



- Investigate!
 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.
- 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						
	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						
neart	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						
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						

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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	n 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				harm our bodies? Tick two. unit: unit:		
is the same before each			smoking			
exercise			all drugs			
complete each exercise			alcohol 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:		lood is to provide the body unit. unit.		unit:
deoxygenated	unit.	dille.		with(tick three)		
oxygenated			nutrients			
blue				carbon dioxide		
Side			oxygen	MOXIGE		
Question 6: Tick TWO boxes					<u> </u>	<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 capi of	and capillaries are examples unit		
pulse rate the most.			blood			
reading a book playing football			blood ve	ccolc		
drinking water						
going for a walk			blood ty			
00 . 			nutrients	>	Ī	Ī