	Oughtersid	le Founda	ation Schoo	ol - Science		
Topic: Animals including humans Year			r: B Strand: Biology			
	What should I already know?			Diagram - The Circulatory System		
 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. 			blood flow to head and arms superior vena cava pulmonary arteries inferior vena cava blood flow to digestive system and lower limbs			
What is the circulatory system?	 The circulatory system is made of the heart, lungs 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 ^{© 2006 (Reythreads Berlance), heart.} Nutrients, oxygen and carbon dioxide a 	aries weining of the second seco	 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 lut Here the blood picks up oxygen and disposes of carbon did 3. The lungs send oxygenated blood back to the left atrium will pumps it to the left ventricle. The left ventricle pumps the blood to the rest of the body, the aorta. 			
	exchanged via the capillaries.		Vocabulary the main artery through which blood leaves your			
Choices	 Some choices, such as smoking and drinl 	king	aorta	heart before it flows through the rest of your body		
that can harm the	 alcohol can be harmful to our health. Tobacco can cause short-term effects such as shortness of breath, difficulty sleeping and loss of taste and long-term effects such as lung disease, cancer and death Alcohol can cause short-term effects such as 		arteries a tube in your body that carries oxygenated blo from your heart to the rest of your body			
circulatory system			atrium	one of the chambers in the heart		
			blood vessels	the narrow tubes through which your blood flows. Arteries, veins and capillaries are blood vessels.		
			capillaries	tiny blood vessels in your body		
	 Alconol can cause short-term effects suc addiction and loss of control and long-te 		carbon dioxide	a gas produced by animals and people breathing out		
Why is	effects such as organ damage, cancer and death		circulatory system	the system responsible for circulating blood through the body, that supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide .		
			deoxygenated	blood that does not contain oxygen		
	make you feel physically and mentally here	ealthier	heart	the organ in your chest that pumps the blood around your body		
	 strengthens the heart improves lung function improves skin 		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		
Diagram - The Heart			organ	a part of your body that has a particular purpose a colourless gas that plants and animals need to		
Vena Cava	• The heart is composed		oxygen	survive		
	chambers; the right at the right ventricle , the		oxygenated	blood that contains oxygen		
Right And the left ventricle.		ntricle.	pulse	the regular beating of blood through your body. How fast or slow your pulse is depends on the activity you		
Atrium Right Ventricle Corygenated Blood De-Oxygenated Blood			respiration	are doing. process of respiring; breathing ; inhaling and exhaling air. In KS3 Science, this process is referred to as ventilation.		
			veins	a tube in your body that carries deoxygenated blood to your heart from the rest of your body		
Investigate!			vena cava	a large vein through which deoxygenated blood		
 How does your pulse change with exercise? What is the most efficient way of presenting this data? 			ventilation	reaches your heart from the body The exchange of air between the lungs and the atmosphere so that oxygen can be exchanged for carbon dioxide		
• Which exercise produces the fastest pulse ? How would you make		d you make	ventricle	one of the chambers in the heart		
this a fair t	this a fair test?		via	through		

Oughterside Foundation School - Science										
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 proces	7: Explain what is happe ss.	ning at each	stage of				
digestive system				, <u>AM</u>						
circulatory system]					
skeletal system				2	3					
muscular system										
Question 2: Which one of these is not an organ?	Start of unit:	End of unit:		└── 🍋 ← ┌→ heart	1					
heart				1	4					
lungs				Â						
blood]	∟ ∭ ← body	-					
Question 3: The most effective				body						
way to show the change in	Start of	End of								
pulse rate over time is by using a	unit:	unit:	1							
picture										
bar chart			2							
pie chart										
line graph										
Question 4: You are			3							
investigating which exercise	Ctowt of	End of								
yields the highest heart rate.	Start of unit:	End of unit:								
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			Question	8: Which of these can	Start of	End o				
each exercise.			harm our	r bodies? Tick two.	unit:	unit:				
ensure the starting heart rate is the same before each			smoking							
exercise			all drugs							
complete each exercise			alcohol							
without resting in between.			exercise							
Question F. The voine corry	Start of	End of		9: The function of the	Start of	End o				
Question 5: The veins carry blood.	Start of unit:	unit:		to provide the body	unit:	unit:				
		GINC.	with(tick three)							
deoxygenated			nutrients water		}					
oxygenated blue			carbon d	ioxide						
		I	oxygen							
Question 6: Tick TWO boxes					<u>ı </u>					
below to show the two	Start of	End of	Question 10: Arteries, veins Start of End of							
		unit:		laries are examples	unit:	unit:				
pulse rate the most.			of							
reading a book			blood							
playing football			blood ve							
drinking water			blood typ							
going for a walk			nutrients	;						