Ĭ	Castlefield School - Science					
Castlefield School	Topic: Circulatory System	Year: Six		Theme: The Human Boo	ly	Strand: Biology
Key Concepts					Key Vocabulary	
<ul> <li>What is the Circulatory System?</li> <li>The circulatory system is made of the heart, lungs and the blood vessels.</li> </ul>				<ul> <li>The Heart</li> <li>The heart is composed of four chambers;</li> <li>the right atrium, the right ventricle, the left atrium and the left ventricle.</li> <li>How often your heart pumps is called your pulse.</li> </ul>		The main artery through which blood leaves your heart before it flows through the rest of your body.
<ul> <li>Arteries carry oxygenated blood from the heart to the rest of the body.</li> </ul>			the right atrium			A tube in your body that carries oxygenated blood from your heart to the rest of your body.
<ul> <li>Veins carry deoxygenated blood from the body to the heart.</li> <li>Nutrients, oxygen and carbon dioxide are exchanged via the</li> </ul>						One of the chambers in the heart
Nutrients, oxygen and carbon aloxide are exchanged via the capillaries. <u>The Circulatory System</u>						The narrow tubes through which your blood flows. Arteries, veins and capillaries are blood vessels.
blood flow to head and arms		1. The right atrium collects the deoxygenated blood from the body, via the vena cava. It sends the blood to the right ventricle.		P Vona Cava Left Arium Left Ventricle Oxygenated Blood De-Oxygenated Blood Tom heart vertricle Capitaries Vertricle Capitaries Vertricle Vertricle Capitaries Vertricle Vertricle De-Oxygenated Blood	capillaries	Tiny blood vessels in your body.
					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.
		<ol> <li>2. The right ventricle pumps the deoxygenated blood to the lungs. Here the blood picks up oxygen and disposes of carbon dioxide.</li> <li>3. The lungs send oxygenated blood back to the left atrium which pumps it to the left ventricle.</li> <li>4. The left ventricle pumps the blood to the rest of the body, via the aorta.</li> </ol>			deoxygenated	Blood that does not contain oxygen
					heart	The organ in your chest which pumps the blood around the body
					lungs	Two organs inside your chest which fill with air when you breath in. they oxygenate the blood and remove carbon dioxide from it
					nutrients	Substances that helps plants and animals to grow.
					organ	A part of your body that has a particular purpose
					oxygenated	Blood that contains oxygen
<ul> <li>Choices that can harm the Circulatory System</li> <li>Some choices, such as smoking and drinking alcohol can be harmful to our health.</li> <li>Tobacco can cause short-term effects such as shortness of breath, difficulty</li> </ul>			Why is exercise s	Why is exercise so important?		The regular beating of blood through your body. How fast or slow your pulse is depends on the activity you are doing.
			ur Exercise can: • tone our musc	Exercise can: • tone our muscles and reduce fat	respiration	Process of respiring: breathing; inhaling and exhaling air.
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     increase fitness     make you feel physically and mentally healthier				physically and 🚽 🎍	veins	A tube in your body that carries deoxygenated blood to your heart from the rest of your body.
<ul> <li>Alcohol can cause short-term effects such as addiction and loss of control and long-term effects such as organ damage, cancer and death</li> </ul>			<ul> <li>improves lung</li> </ul>	inproves tang janetion	vena cava	A large vein through which carries deoxygenated blood to your heart from the body
unproves skir					ventricle	One of the chambers of the heart
??	Working Scientifically Skills			o draw conclusions.	Famous Scientists	
e e e e e e e e e e e e e e e e e e e	Recognising when to use other sources to answer questions and separating opinion from fact.			ing different types of enquiry controlling		Nilliam Harvey (1578-1657) made the nomentous medical discovery that the flow of blood must be continuous and that its flow nust be in one direction only.