**Year 6 Autumn 2 – Animals including humans**

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| **Learning objectives for this topic** | **Key vocabulary** | **Useful websites to search for** |
| To Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.  To help learn about the structure of real organs, through watching the teacher carry out a dissection.  To help develop observational skills, through investigating a dissected organ (heart).  To know that blood is an important transport system in my body.  To know that my blood passes through the heart twice during each circulation (double circulation).  To know that the blood collects oxygen from the lungs and in exchange gets rid of carbon dioxide (respiration).  To Describe the structure of the lungs.  To explain what happens when we breathe in and out.  To understand why exercise is important for my health.  To explain what I need to keep my body healthy.  To recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. | **Arteries –** Muscular-walled tubes that transport blood from the heart to other parts of the body  **Blood –** Red liquid that circulates in arteries and veins, carrying oxygen to and carbon dioxide from tissues of the body  **Blood vessel –** A tubular structure carrying blood through the tissues and organs  **Circulatory system –** The system that circulates blood through the body, including the heart, blood vessels and blood  **Heart –** A hollow muscular organ that pumps the blood through the circulatory system  **Lungs –** Pair of organs situated within the ribcage where oxygen can pass into the blood and carbon dioxide be removed  **Muscles –** A band or bundle of fibrous tissues that have the ability to contract, producing movement in or maintaining positions of parts of the body  **Nutrients –** A substance that provides nourishment essential for the maintenance of life and for growth  **Organs** – Part of an organism that is typically self-contained and has a specific vital function (e.g. the heart and lungs)  **Veins –** Tubes forming part of the blood circulation system of the body, carrying mainly oxygen-depleted blood towards the heart | SMM.org/heart  BBC Bitesize |
| **Key scientists and people** |
| [This Photo](http://www.flickr.com/photos/katiehumphry/4826781811/) by Unknown Author is licensed under [CC BY-NC](https://creativecommons.org/licenses/by-nc/3.0/)  C:\Users\ESummersgill\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.MSO\ABDAA639.tmp  **Dr Christian Barnard.**  William Harvey |