**Physical Education**

**Grade 10**

**April 1, 2020**

**Function of the Circulatory system**

The main function of the circulatory (or cardiovascular) system is to deliver oxygen to the body tissues, whilst simultaneously removing carbon dioxide produced by metabolism. Oxygen is bound to molecules called hemoglobin that are on the surface of the red blood cells in the blood.

Beginning in the **heart**, deoxygenated blood (containing carbon dioxide) is returned from systemic circulation to the **right side** **of** **the** **heart**. It is pumped into pulmonary circulation and is delivered to the **lungs**, where gas exchange occurs. The carbon dioxide is removed from the blood and replaced with oxygen. The blood is now oxygenated, and returns to the **left side of the heart**.

From there, it is pumped into the systemic circuit, delivers oxygen to the **tissues**, and returns again to the **right side of the heart**. The blood also acts as an excellent transport medium for nutrients, such as electrolytes, as well as hormones. The blood also transports waste products that are filtered from the blood in the liver.

Activity

Due Date: April 8, 2020

Draw and label the heart. (15mks)

Send work to this email address

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