**Biology 12 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5 types of blood vessels - Circulatory System**

Analyse the function interrelationship of the 5 types of vessels in the circulatory system - Fill out the following chart:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Vessel** | **Diagram** | **Structure and thickness** | **Are valves present?** | **Direction of blood flow? Towards/away from the heart)** |
| Artery |  |  |  |  |
| Vein |  |  |  |  |
| Arteriole |  |  |  |  |
| Venuole |  |  |  |  |
| Capillaries |  |  |  |  |

**Review of Blood Pressure, Velocity and Cross Sectional area**

1. Describe what happens to the blood pressure as the blood flows from the arteries to the veins.

Why do you think this happens?

1. Describe what happens to the blood velocity as the blood flows from the arteries to the veins.
2. Describe what happens to the total cross sectional area of vessels as the blood flows from the arteries to the veins.
3. What is the relationship between the velocity and total cross sectional area of vessels?