**Circulatory System Foldable**

* **Important Vocabulary**
	+ **Circulatory System: transports material from digestive and respiratory systems to the cells**
	+ **Blood: Fluid that carries materials and waste**
	+ **Artery:** **vessel that takes blood away from the heart – OXYGEN RICH!**
	+ **Veins:** **vessels that carries blood back to the heart – LOW OXYGEN**
	+ **Capillaries:** **connects the veins and arteries.**
	+ **Red Blood Cells:** **pick up oxygen in lungs and transport it throughout the body**
* **Job of Circulatory System**
	+ **Transport materials from the digestive system and respiratory system to body cells.**
		- **Digestive system: glucose (sugar)**
		- **Respiratory system: oxygen**
			* **Blood also gets rid of CO2**
* **Structures**

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| **Heart*** **Organ**
* **Pushes blood throughout the body**
* **2 pumps**
	+ **O2 to lungs**
	+ **O2 to body**
* **4 chambers – with each heart beat**
	+ **Right atrium**
	+ **Right ventricle**
	+ **Lungs**
	+ **Left atrium**
	+ **Left ventricle**
	+ **Body**
 | **Blood*** **Tissue**
* **Made up of plasma, red blood cells, white blood cells, and platelets**
* **We have more red blood cells than whites cells**
* **Red blood cells transport oxygen**
* **White blood cells fight off infections**
* **Platelets are responsible for scabbing**
 | **Blood Vessels*** **Tube like structures**
* **Blood moves through**
* **Types:**
	+ **Arteries**
	+ **Veins**
	+ **Capillaries**
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* **Blood Pressure**
	+ **Blood pressure = force produced when heart contracts. This force travels through the blood vessels.**
	+ **Allows materials to travel to all parts of your body**
	+ **Healthy blood pressure is very important**
		- **Low blood pressure: not all cells get needed materials.**
		- **High blood pressure: weaken the artery walls; this causes the heart to work harder.**
* **Types of blood**
	+ **Each blood cell has special proteins on its surface**
		- **One type of protein determines blood type**
	+ **Four types of blood**
		- **A : A proteins**
		- **B: B proteins**
		- **AB: A and B proteins**
		- **O: neither proteins**
* **Blood type compatibility**

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| **Type** | **Can donate to** | **Can receive from** |
| **A** | **A, AB** | **A, O** |
| **B** | **B, AB** | **B, O** |
| **AB** | **AB** | **A, B, AB, O** |
| **O** | **A, B, AB, O** | **O** |