**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** |

* **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** |