

Circulatory System “Walkthrough” Rules

**Life Science (Lower Middle)
Unit 3**

Circulatory System “Walkthrough” Rules

Adapted from Blood Circulation Game by the Collaborative Learning Project which is an adaptation of the Blood Circulation Game by June Agar. See activity [here](#).

1. Your teacher will give you a Role Card. Read your Role Card carefully to see what your job will be. Be sure to note how many oxygen, nutrient, carbon dioxide, and waste cards you will need to collect before beginning.
2. Collect the cards that you need to begin. Then attach your Role Card to your clothing.
3. Your teacher will assign one student to play the role of a blood cell on the blood flow diagram. The rest of the class should watch where the blood cell goes and what happens at each organ.
 - If you are an organ, you must stay in the same location in the body and not move.
 - The heart should push the blood gently on its way.
4. Now, scholars playing the role of blood cells should **WALK** through the model. You may start anywhere on the blood flow diagram, but be sure to follow the direction of the arrows.
 - Blood must get to all different parts of the body. If you are role playing blood, you should not go to the same organ twice in a row. Go to other organs instead. Try to avoid organs where there is already too much blood.
5. Next, PLAY the Circulation Game. Your teacher may clap or keep a beat to simulate each pump of the heart. Only move forward on the beat.
6. As the blood flows through the body, carbon dioxide and waste products build up in the organs. The stomach and lungs start running out of food and oxygen. Your teacher will direct you on what to do to take care of these problems.
 - Blood does not have to give its oxygen and nutrients to the first organ it comes to. If blood is going to travel to other organs it may save the oxygen and nutrients. However, it must exchange oxygen and nutrients for carbon dioxide and wastes before returning to the heart.
 - Toxins may only be removed by the liver.
7. If you have time, switch role cards and play the Circulation Game again.