Year 6 Topic home learning - Blood Heart

This term we will focus on understanding how the circulatory system works. You will learn about the heart's structure and how blood flows through it, as well as the roles of arteries, veins, and capillaries. You will study the components of blood, like red and white blood cells, platelets, and plasma, and how they work together to transport oxygen and nutrients.

Below are some activities to help you prepare for our learning; you have a free choice of the activities. The Dojo's will be totaled and be entered for our end of term treat. The more dojos, the more time you get!

Return your projects along with the cover sheet with your chosen activities highlighted by **Friday 23rd May 2025**.

Blood Flow Diagram Draw and label a diagram showing how blood flows through the heart and around the body. Include the names of the chambers, valves, and blood vessels involved, and explain the path blood takes during circulation. **5 Dojos**	**Heart Model Creation** Create a 3D model of the heart using materials like clay, playdough, or cardboard. Label the parts of the heart, including the atria, ventricles, valves, and major blood vessels. **5 Dojos**	**Heart Health Poster** Design a poster that promotes heart health. Include tips on eating well, exercising, and avoiding harmful habits. Add facts about how these choices can keep the heart strong. **5 Dojos**
Healthy Heart Recipe Find healthy recipes that promote heart health. Create a meal plan that includes foods known to be good for the heart, such as those rich in omega-3s or antioxidants. Share your recipes and explain how each food benefits heart health. **5 Dojos**	**Comparing Animal Hearts** Research how the heart works in different animals, like fish, frogs, and mammals. Create a comparison chart to show the similarities and differences. Can you explain why some animals have a different number of heart chambers than humans? **5 Dojos**	**Pulse Rate Study** Study how pulse rate can change in different environments or after different activities. For example, how does your pulse rate compare when you're sitting down versus after running around? Keep track of your pulse and show the difference. **5 Dojos**
Heart Trivia Quiz Create a quiz about the heart, blood, and circulatory system. Include questions about how the heart works, the components of blood, and interesting facts about heart health. **5 Dojos**	**Blood Flow Simulation** Create a simple simulation of how blood flows through the heart and body using household materials. For example, you could use a water bottle to represent the heart and straws for the blood vessels. Show how the blood flows through the body and explain the process in a video. **5 Dojos**	**The Role of Platelets** Research the function of platelets in blood clotting. Create a poster or short video explaining how platelets help stop bleeding and how they work to form blood clots. **5 Dojos**