














Animals Including Humans:

The Circulatory System: Functions

Aim: To describe the functions of the heart, blood vessels and blood by investigating how the different parts of the circulatory system work. I can describe the functions of the main parts of the circulatory system.	Success Criteria: I can explain the main functions of the heart, lungs and blood vessels. I can describe the functions of parts of the heart and lungs.	Resources: Lesson Pack Computer or mobile device Scratch 2.0 Glue Scissors Felt Tip Pens Coloured Card
	Key/New Words: Human, circulatory, organs, parts, heart, lungs, blood vessels, aorta, atrium, ventricle, artery, vein, pulmonary, superior vena cava, inferior, pulmonic, aortic valve, trachea, bronchus, bronchiole, diaphragms, air sacs, alveoli, capillary, functions, intercostal muscles and ribs.	Preparation: Circulatory System Board Game Activity Sheet - as required - laminate boards and pieces prior to the lesson Scratch Circulatory System Quiz - as required Who Wants to be a Millionaire: Circulatory System Template - as required Functions of the Circulatory System Information Sheets and corresponding The Circulatory System Reading Comprehension Activity Sheets - 1 per child

Prior Learning: Children will have learnt the names of the parts of the hearts and lungs in lesson 1.

Learning Sequence

	The Circulatory System: Children label the main parts of the circulatory system, as well as the heart and lungs.	
	Functions of the Heart, Lungs and Blood Vessels: Children to read information and answer questions using the differentiated Functions of the Circulatory System Information Sheets and The Circulatory System Reading Comprehension Activity Sheets .	
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Children read and answer questions about the general functions of the different parts of the circulatory system.</p> </div> <div style="text-align: center;">  <p>Children read and answer questions about the functions of the specific parts of the lungs.</p> </div> <div style="text-align: center;">  <p>Children read and answer questions about the functions of the specific parts of the heart.</p> </div> </div>	
	Game: Explain that the children will be creating a circulatory system game using the knowledge they have acquired. Children will be shown three examples but they can also make suggestions for their own games. <ul style="list-style-type: none"> Board Game: Show children the different parts included in Circulatory System Board Game Activity Sheet (The children can be given parts or all of the game instead of making it all from scratch). Scratch Game: Show children the Scratch Circulatory System Quiz. Who Wants To Be a Millionaire: Show children the blank Who Wants to be a Millionaire: Circulatory System Template. 	
	The Circulatory System Game: Place children in mixed ability groups of 3 or 4. Children discuss and plan their game using The Circulatory System Game Plan Activity Sheet and with reference to their Functions of the Circulatory System Information Sheets . Have an adult approve each plan before children gather the appropriate equipment and create their own games.	
	Play The Circulatory System Game: Children play each other's games, using the Functions of the Circulatory System Information Sheet as reference to check that the questions and answers were accurate. Children give verbal feedback to the group whose game they played based on the accuracy of the questions and answers.	

Taskit

Gameit: Children to create a different type of game or quiz to the one they made in their group. Give children the [Functions of the Circulatory System Information Sheets](#) to use as reference.

Explainit: Children select one of the [Explain the Process Challenge Cards](#) which describe one of the processes that occur in the circulatory system e.g. how air sacs transfer gases into the blood. They then explain the process on the card by writing a paragraph, drawing a picture or creating a diagram.