Year 6 Animals, including humans Right ventricle

part of the body is

associated with each sense

Pulmonary artery Year 6 Science Spring 1 Unit offettonery 1 Unit offet Animals Including Humans

Progression of Knowledge

Healthy	Food	Pyramid
nealth	FOOU	ryrailliu

Take measurements, using a		11 ogi ession of knowledge					Healthy Food Pyram	
range of scientific equipment, with increasing accuracy and		Unit	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
precision, taking repeat readings when appropriate Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs		Animals, including humans	reptiles, birds and mammals	including humans, have offspring which grow into ls adults y Find out about and describe	f 1 - 1	Describe the simple functions of the basic parts of the digestive system in humans Identify the different types of teeth in humans and	Describe the changes as humans develop to old age	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
Use test results to make predictions to set up further comparative and fair tests			carnivores, herbivores and omnivores Describe and compare the	including humans, for survival (water, food and air)	from what they eat Identify that humans and some other animals have	their simple functions Construct and interpret a variety of food chains,		Recognise the impact of diet, exercise, drugs and lifestyle on the way their
Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and	oral		structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)	Describe the importance for humans of exercise, eating	skeletons and muscles for support, protection and movement	identifying producers, predators and prey		bodies function Describe the ways in which nutrients and water are transported within animals, including humans
other presentations Identify scientific evidence that has been			Identify, name, draw and label the basic parts of the human body and say which		Less	son Sequence		The Heart

	Rocket Words				
	circulatory system	the system that controls the flow of blood around the body			
	BPM	beats per minute measuring heart rate			
\$ 8 B	diet	the kind of food an animal usually eats			
\rightarrow	pulse	the rhythmical throbbing of the arteries as blood is pumped through them			
	oxygenated	containing oxygen			
*	deoxygenated	not containing oxygen			
	atrium	the upper chambers of the heart			
	ventricle	the lower chambers of the heart			
42.5	vessel	tube which circulates the blood through the body			
	valve	flaps which open and close to allow blood flow			
	diffusion	diffusion is the movement of all liquids and gases			
	osmosis	osmosis is the movement of water only			

Key Scientific Skills

Plan different types of scientific enquiries to answer questions,

and controlling variables where

used to support or refute ideas or

arguments

including recognising

necessarv

Bird in Bush Primary School Science Knowledge Organiser 2023—2024

Knowledge Organiser adapted from the Developing Experts Science Scheme

Looking After Our Heart



To keep our heart and body healthy, we need to:

- eat a balanced diet (not too much sugar or fat);
- exercise regularly;
- · drink approximately 2 litres of water a day;
- limit alcohol intake, in adults;
- get approximately 8 hours of sleep.





Drugs, including alcohol, can cause liver damage, poor sleep, high blood pressure, and different types of cancer. Drugs can be classified into four groups - painkillers, stimulants, depressants and hallucinogens.



1. Understand the function of the heart and its role in the circulatory system





3. Explore blood



4. Learn how the body transports vater and nutrients

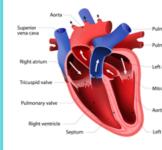


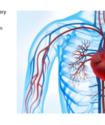
5. Investigate what affects your heart rate



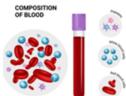
6. Learn about the impact of drugs and alcohol on the body

The heart pumps blood, carrying nutrients and oxygen, around every part of the body.





The red vessels are arteries and the blue vessels are veins. Arteries have thick, muscular walls and carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood back to the heart and have thinner walls. Capillaries are microscopic vessels which link the veins and arteries together.



Red blood cells carry oxygen. White blood cells fight infection as part of the immune system. Platelets help to clot (thicken) the blood and form a scab. Plasma is the fluid part of the blood, which transports