Animals Including Humans Knowledge Organiser

Year 6

Animals including Humans Vocabulary

Year 6

1.

heart	The heart is a muscle that pumps blood throughout the body, carrying oxygen and nutrients to cells and removing waste products.
lungs	Lungs are a pair of organs that help you breathe by taking in oxygen and getting rid of carbon dioxide.
veins	Veins are blood vessels located throughout your body that collect oxygen-poor blood and return it to your heart.
blood vessel	A tube through which blood circulates the body.
arteries	Arteries are the blood vessels that bring oxygen rich blood from your heart to all your body's cells.
circulatory system	The circulatory system is made up of blood vessels that carry blood away from the and towards the heart.

2.

Science vocabulary

Ventricle	A chamber of the heart which receives blood from an atrium and from which blood is forced into the arteries.
Atrium	The atrium is one of two upper chambers in the heart that receives blood from the circulatory system.
Pulse rate	Your pulse rate, also known as your heart rate, is the number of times your heart beats per minute. A normal resting heart rate should be between 60 to 100 a minute.
muscle	Muscle is contractile tissue grouped into coordinated systems for greater efficiency.

3.

Science Vocabulary

Organ	In biology, an organ is a collection of tissues that structurally form a functional unit specialized to perform a particular function. Your heart, kidneys, and lungs are examples of organs.
Food groups	A food group is a collection of foods. They list nutrition and typically divide foods into food groups and Recommended Dietary Allowance of each group for a healthy diet.
Circulatory system	The circulatory system is made up of blood vessels that carry blood away from and towards the heart.
Life style choices	Life style choices that can have a positive or negative effect on your circulatory system. Examples include exercise, alcohol and drugs.

4.

Anglo-Saxons – Year 6

I Now Know…

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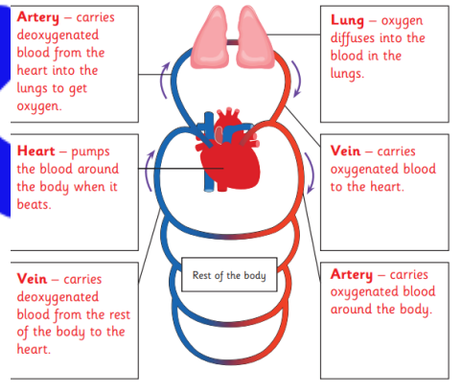
1



Blood is made out of red blood cells, white blood cells, platelets and plasma. Blood helps move oxygen and nutrients around the body.

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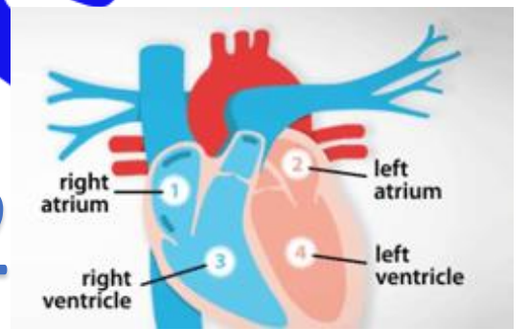
2



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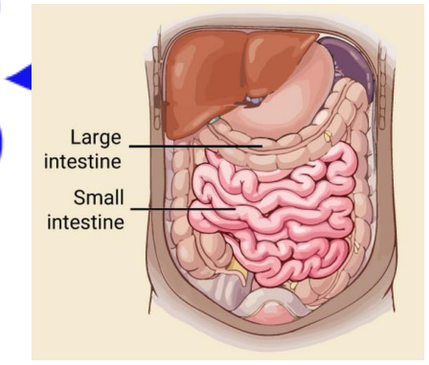


Nutrients are absorbed through the small intestine and then transported around the body through blood.

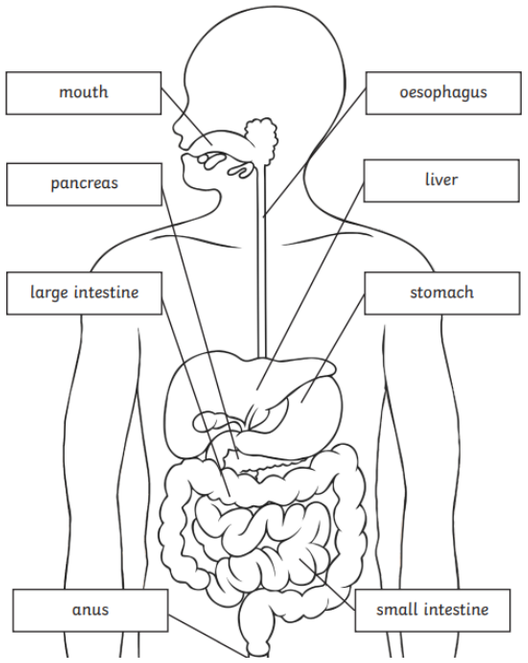
INK

4

- **Drugs**: Drugs can raise heart rate and blood pressure, increasing heart disease risk.
- **Smoking**: Smoking creates a tar like substance on the lungs which makes it harder to produce oxygen.
- **Diet**: Poor diet increases cholesterol and blood pressure, leading to heart disease.

Animals including humans Links to prior learning

MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY	
Digestive system	Naming and understanding parts of the body that work together as part of process.
Small intestine	The job of the small intestine is to absorb the nutrients into the blood stream and transport them to different parts of the body.



LO: I can identify and compare living things and group them by their characteristics

SC: I can:

- Explain that all living things, which can also be called organisms, have to do certain things to stay alive.
- Identify the life processes: • movement • respiration • sensitivity • growth • reproduction • excretion • nutrition
- Give examples of how living things can be grouped according to different criteria (where they live, what type of organism they are, what features they have)
- Challenge: Compare life processes in different organisms

LO: I can identify parts of the digestive system and describe their function.

SC: I can:

- Identify the oesophagus, stomach, small intestine, large intestine and rectum
- Explain the function of these organs
- Challenge: consider how these organs differ in different animals

Animals including humans – Year 6 LOs

LO: I can identify and name the main parts of the human circulatory system SC – I can:	
Identify the heart, lungs and the blood vessels within the circulatory system	
I can explain the function of blood	
Describe the different roles of the arteries and veins	
Explain how nutrients, oxygen and carbon dioxide are exchanged	

LO: I can describe the functions of the heart and what different parts do	
Identify the different chambers of the heart and name them accurately	
Link pulse to the muscles in the heart pumping	
Research how and why the heart pumps	

LO: I can explore how nutrients and water are transported within animals	
Identify the small intestine	
Research how nutrients and water are absorbed by the small intestine	
Describe how these then reach the rest of the body	

LO: I can recognise the impact of diet, exercise and drugs on my lifestyle.	
Say why exercise is important and describe how it improves the function of particular organs	
Identify choices that can harm the circulatory system and research the effects that they have e.g. taking various drugs	
Investigate the impact consuming different food groups have on the circulatory system	

Animals including humans Post Assessment Year 6

1. What is blood made of? What is the purpose of blood?
2. Name the main parts of the circulatory system
3. Describe the different roles of arteries and veins
4. Describe the function of the heart
5. Identify the different parts of the heart and explain the journey of the blood throughout the circulatory system
6. Explain the impact of diet, exercise and drugs on your lifestyle.
7. Explain how these life styles choices harm the circulatory system.
8. Explain how nutrients and water are transported within animals.