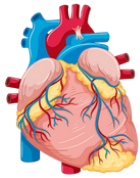
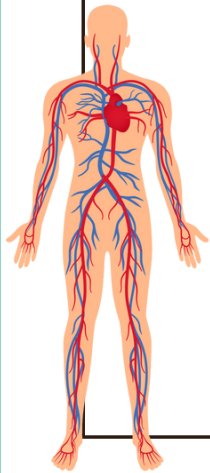


Circulatory System, Blood, & Health Knowledge Organiser



Topics Covered:

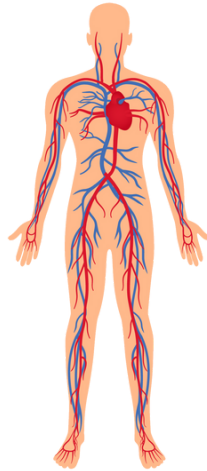
- 1. The Circulatory System (Definition and components).
- 2. The Heart's Function.
- 3. Blood Vessels (Arteries, Veins, Capillaries).
- 4. Oxygenated vs. Deoxygenated Blood Flow.
- 5. Blood Composition (Plasma, Red/White Cells, Platelets).
- 6. Transport Functions of Blood (Gases, Nutrients, Waste Products).
- 7. Healthy Lifestyles and Exercise



1

QUESTION CARD

Define the circulatory system, naming the three key components it includes.



U

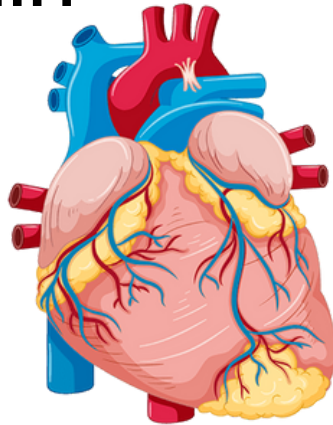
ANSWER CARD

A system which includes the heart, veins, arteries and blood transporting substances around the body.

2

QUESTION CARD

What is the main function of the heart in the circulatory system?



F

ANSWER CARD (STUDENT INPUT)

3

QUESTION CARD

True or False:
Arteries, veins,
and capillaries
are the three
types of blood
vessels.

B

ANSWER CARD

True

4

QUESTION CARD

Which blood
vessels carry
deoxygenated
blood toward
the heart?

P

ANSWER CARD

Veins

5

QUESTION CARD

What is the difference between oxygenated blood and deoxygenated blood?

C

ANSWER CARD

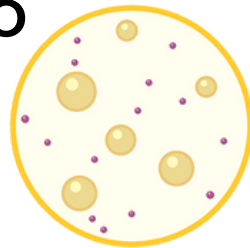
Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body.

Deoxygenated blood is blood where most of the oxygen has already been transferred to the rest of the body.

6

QUESTION CARD

Blood is made up of both liquid and solid parts. What is the liquid part called, and what two substances does it contain?



A

ANSWER CARD

The liquid part of blood contains water and protein. This is called plasma.

7

QUESTION CARD

Name the specific blood vessels that carry oxygenated blood away from the heart.

D

ANSWER CARD

Arteries

8

QUESTION CARD

Describe the path blood takes through the body to pick up oxygen. Start with the heart pumping blood to the lungs.

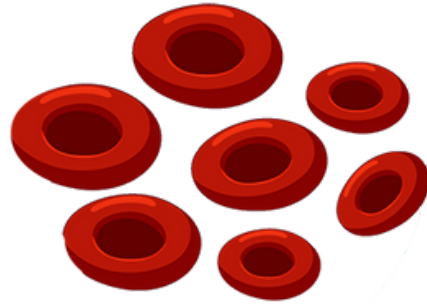
O

ANSWER CARD (STUDENT INPUT)

9

QUESTION CARD

What is the function of Red blood cells?



E

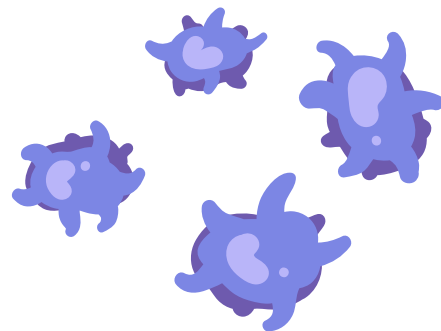
ANSWER CARD

Carries oxygen through your body.

10

QUESTION CARD

What are the two functions of the Platelets?



G

ANSWER CARD

Help you stop bleeding when you get hurt.

11

QUESTION CARD

What are capillaries and what is their key function in the circulatory system?



H

ANSWER CARD

They are the smallest blood vessels in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

12

QUESTION CARD

Name three substances that are listed as having negative effects on the body.



L

ANSWER CARD

Drugs, alcohol and smoking have negative effects on the body.

13

QUESTION CARD

Define the terms drug and alcohol.

I

ANSWER CARD

A substance containing natural or man-made chemicals that has an effect on your body when it enters your system.

14

QUESTION CARD



List three benefits of regular exercise.

K

ANSWER CARD

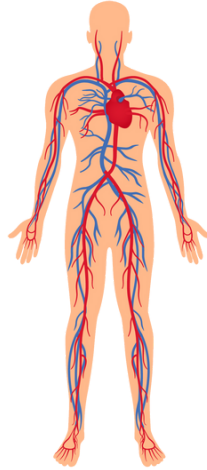
Answers vary but may include:

- strengthens muscles including the heart muscle;
- improves circulation;
- increases the amount of oxygen around the body;
- releases brain chemicals which help you feel calm and relaxed;
- helps you sleep more easily;
- strengthens bones.

15

QUESTION CARD

Name three things that blood transports around the body.



N

ANSWER CARD (STUDENT INPUT)

16

QUESTION CARD

Define the term alcohol.



Q

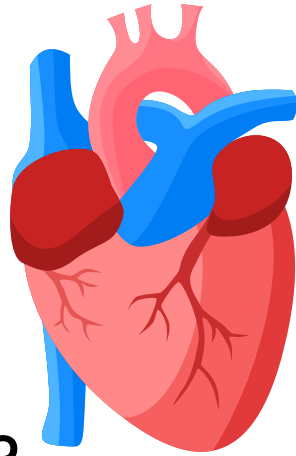
ANSWER CARD

Produced from grains, fruits or vegetables when they are put through a process called fermentation.

17

QUESTION CARD

Challenge
Question: In a diagram, why is some blood shown as red and some as blue?



S

ANSWER CARD (STUDENT INPUT)

18

QUESTION CARD

Define
nutrients in
relation to
animals.



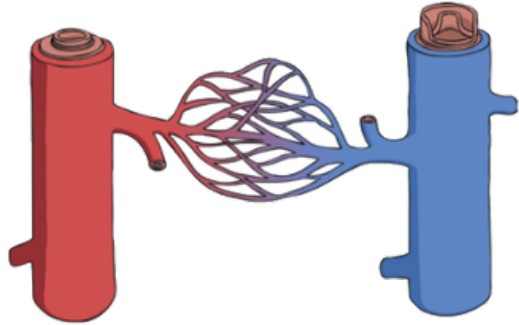
R

ANSWER CARD (STUDENT INPUT)

19

QUESTION CARD

What are the three types of blood vessels?



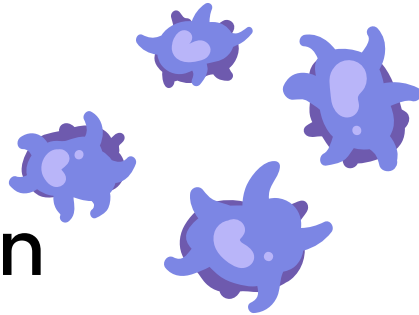
J

ANSWER CARD (STUDENT INPUT)

20

QUESTION CARD

True or False?
Platelets help
you stop
bleeding when
you get hurt.



M

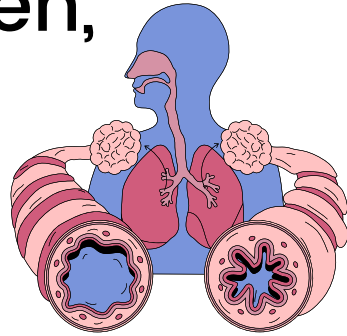
ANSWER CARD

True

21

QUESTION CARD

Where does the exchange of water, nutrients, oxygen, and carbon dioxide take place?



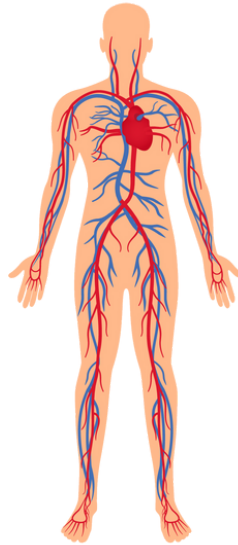
W

ANSWER CARD (STUDENT INPUT)

22

QUESTION CARD

An organ which constantly pumps blood around the circulatory system is known as...



T

ANSWER CARD

Heart

23

QUESTION CARD

What does the heart do with the blood once it has been pumped to the lungs and returned?

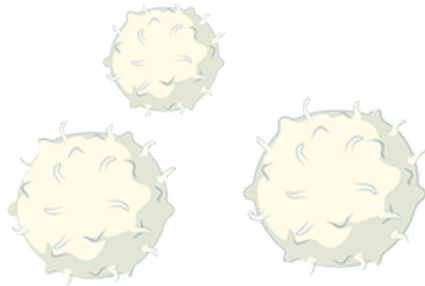
V

ANSWER CARD (STUDENT INPUT)

24

QUESTION CARD

What is the main function of white blood cells?



X

ANSWER CARD

Helps fight infection when you're sick.

Circulatory System, Blood, & Health Knowledge Organiser Answer Sheet

| | | |
|------|------|------|
| 1-U | 11-H | 21-W |
| 2-F | 12-L | 22-T |
| 3-B | 13-I | 23-V |
| 4-P | 14-K | 24-X |
| 5-C | 15-N | |
| 6-A | 16-Q | |
| 7-D | 17-S | |
| 8-O | 18-R | |
| 9-E | 19-J | |
| 10-G | 20-M | |