A photograph of two young girls with long dark hair, wearing blue t-shirts, sitting together and looking at a tablet. The girl on the left is holding the tablet, and the girl on the right is resting her chin on her hand, looking at the screen. The background is a white wall with a subtle floral pattern and a white chair back.

# Circulatory System Quiz

A note to teachers

This resource is recommended for use in two ways:

1. As the answer scheme to the Circulatory System Challenge cards. Using the challenge cards, students discover the answers to each question as they are using the Virtuali-Tee app. Downloads are available in the teacher resources repository <https://drive.google.com/drive/folders/17N-hPZnEAdBwevuxAYoTiyasNatYQM9?usp=sharing>
2. As a group quiz after using the Virtuali-Tee app.



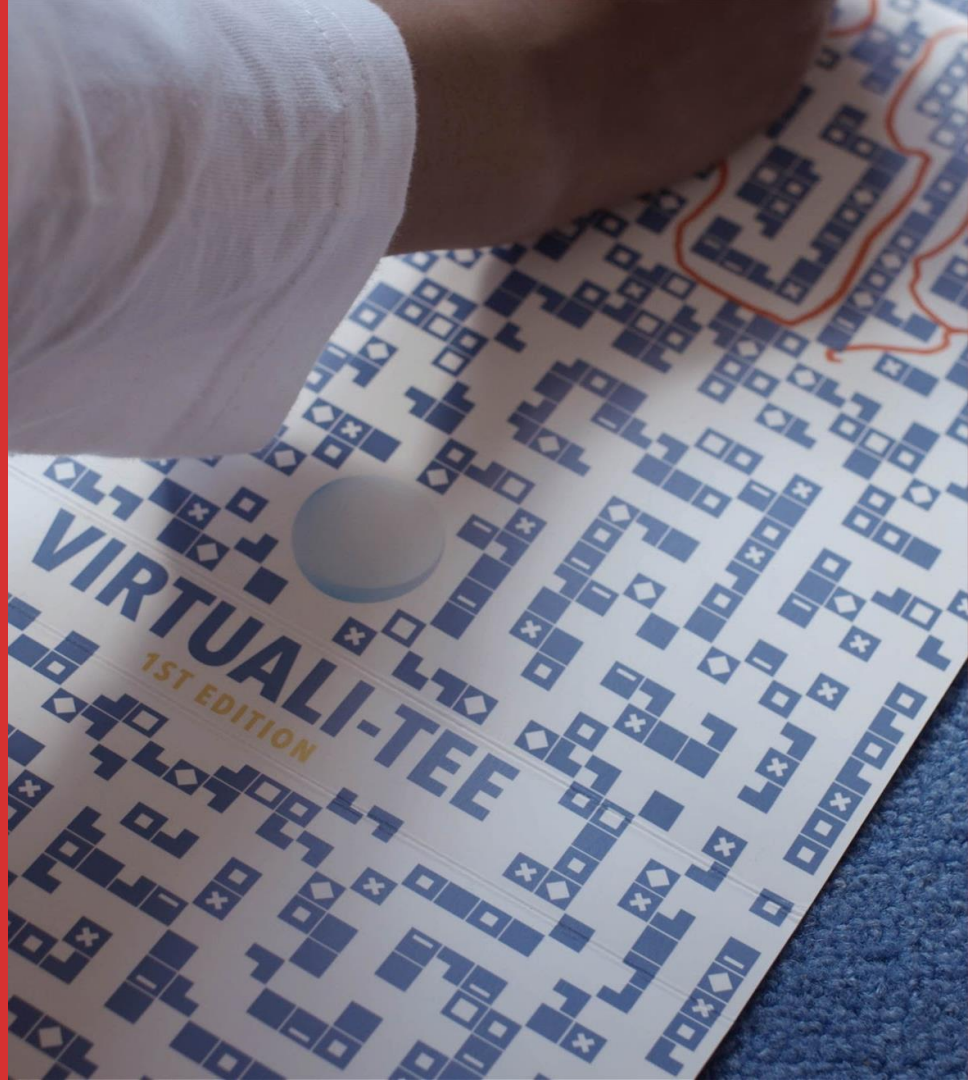
# Circulatory System

# Question 1

How many miles (or kilometers) of blood vessels are in the average human body?

- A. 10 miles (16 km)
- B. 100 miles (160 km)
- C. 6000 miles (9,656 km)
- D. 60000+ miles (96,560 km)

Compare that to the earth's circumference of only 24,000 miles! (38,600 km)





## Question 2

Blood that enters the lungs to receive oxygen is known as ...

- A. Deoxygenated blood
- B. Oxygenated blood
- C. Detoxified blood
- D. Retoxified blood

The blood has had oxygen removed and is therefore “de” oxygenated.

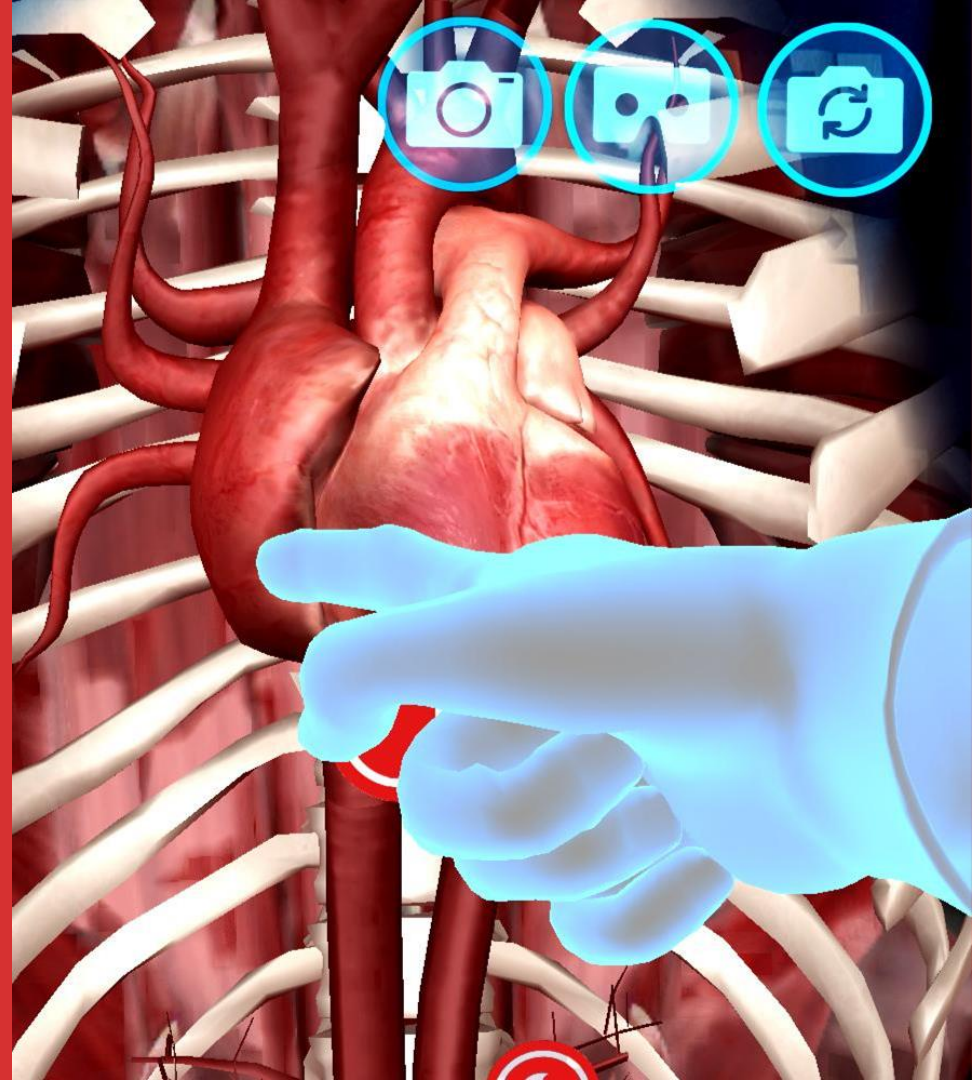


# Question 3

Which of the following is smallest in diameter?

- A. Veins
- B. Arteries
- C. Capillaries
- D. Arterioles

“Capillar” comes from the Greek for “hair-like”.

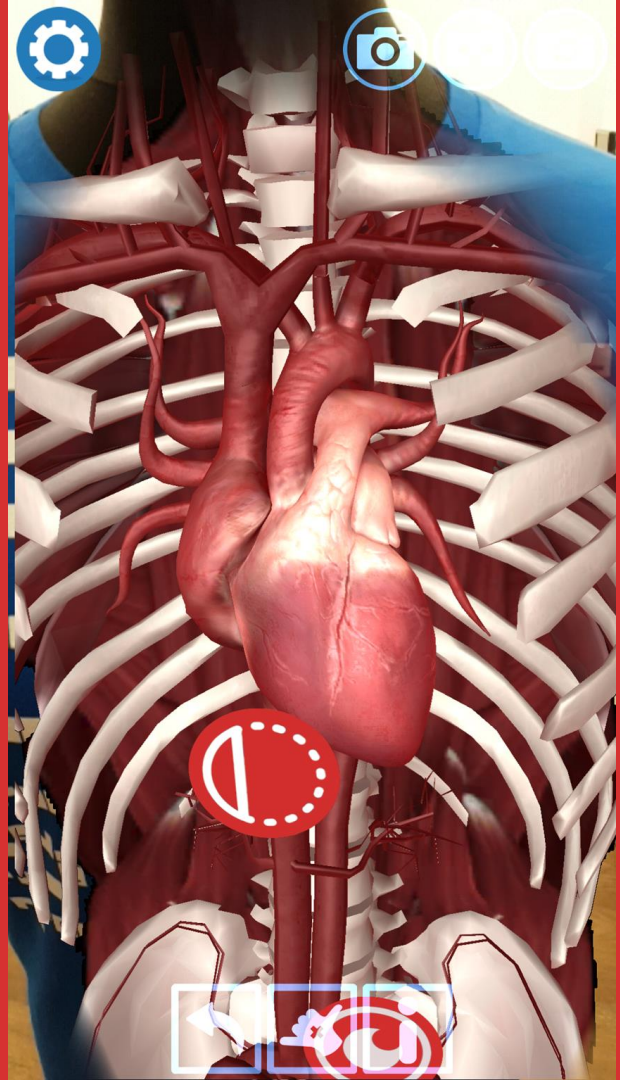


# Question 4

How often does the heart beat?

- A. Every time you blink
- B. 1 million times a day
- C. Every time you breath in
- D. 100,000 times a day

Your heart is busier than you, beating even when you are resting; between 60 and 100 times a minute!



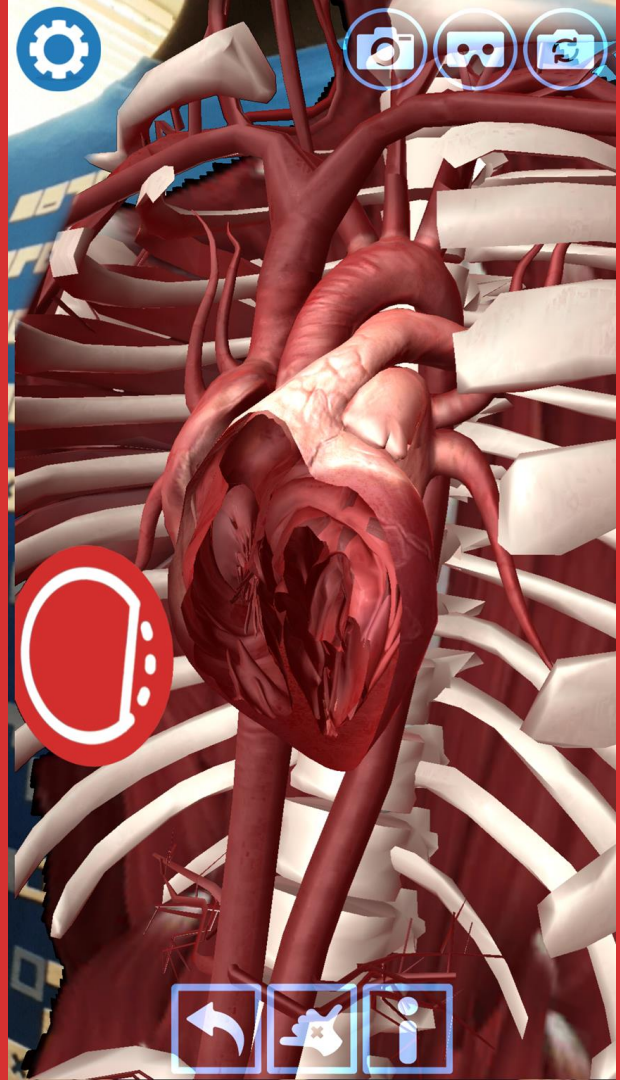


# Question 5

What is the name of the upper chambers of the heart?

- A. Ventricles
- B. Atria
- C. Valves
- D. Veins

Atria is also the name used for large open spaces in a building, and comes from the Latin “Atrium”, which was the word for the central court in a house.



# Question 6

What stops the blood in your heart from flowing the wrong way?

- A. Gravity
- B. Pistons
- C. Valves
- D. Cogs

Just like in a bicycle pump, valves control the direction of blood flow in the heart.



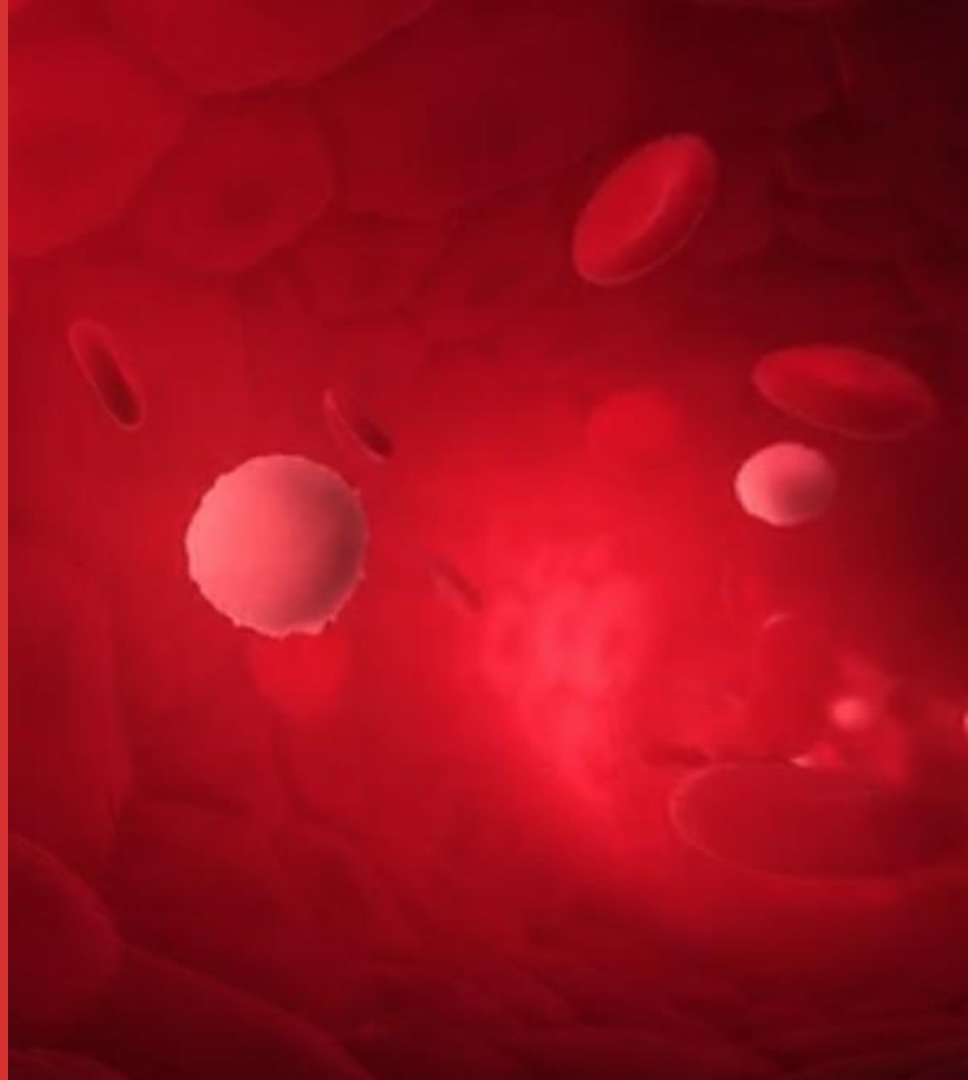


# Question 7

What do red blood cells carry?

- A. Carbon dioxide to the lungs
- B. Nutrients to the muscles
- C. Instructions from the brain
- D. Oxygen around the body

Red blood cells carry oxygen to tissues and organs in the body, and that oxygen is used to clean the blood.



# Question 8

Which of the following carry nutrients to the tissues and organs?

- A. Platelets
- B. White blood cells
- C. Plasma
- D. Green blood cells

Plasma is also the coolest name in the body! It is a clear, straw-coloured fluid. It also helps carry the blood cells around your body.



# Question 9

Which of the following carries waste away from tissues and organs?

- A. Platelets
- B. White blood cells
- C. Plasma
- D. Green blood cells

Plasma makes up for approximately 55% of total blood volume.





# Question 10

Blood flows away from the heart via ...

- A. Arteries
- B. Veins
- C. Esophagus
- D. Bronchioles

Veins carry blood back to the heart; they are darker than arteries as they carry back deoxygenated blood.

