

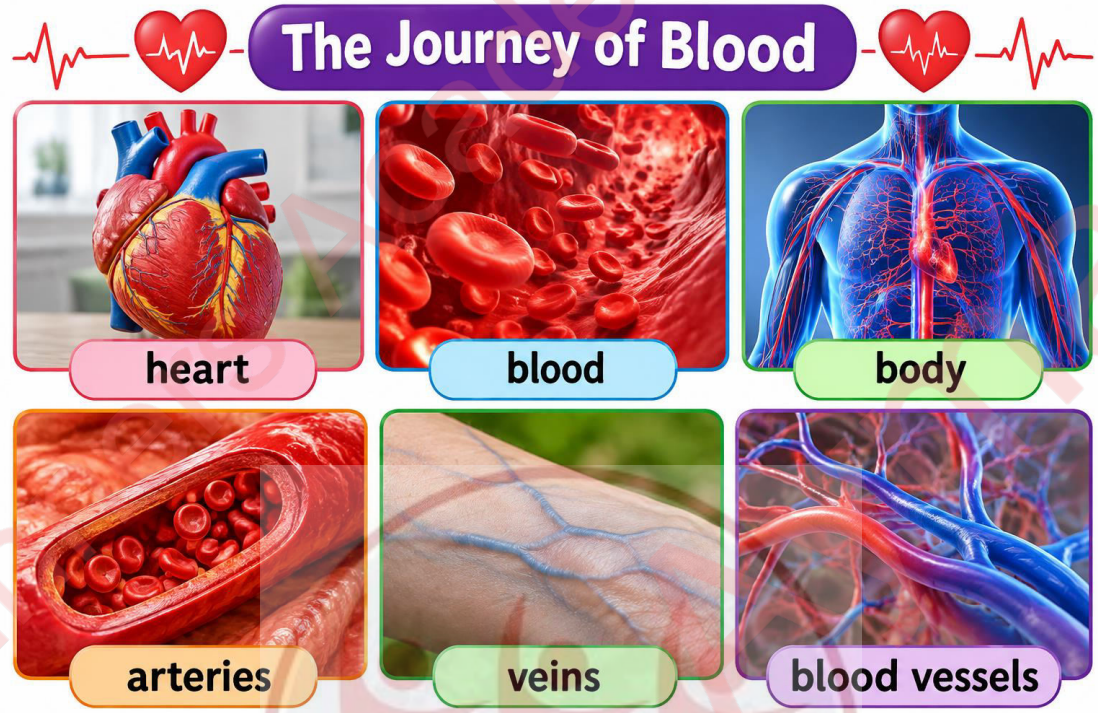
Grade 8 Gen _Grade 7 Adv _ Unit 3. 3 C_ Winners Academy

2026/2027

T/ Fatma Ayman

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3 C : Who discovered how blood moves around the body?



Word	Word	Word
Blood – الدم	Plasma – البلازما	Blood cells – خلايا الدم
Oxygen – الأكسجين	Red blood cells – خلايا الدم الحمراء	White blood cells – خلايا الدم البيضاء
Platelets – الصفائح الدموية	Blood vessels – الأوعية الدموية	Arteries – الشرايين
Veins – الأوردة	Heart – القلب	Lungs – الرئتان
Pump – يضخ	Beat – ينبض	Cells – الخلايا
Circulate – يدور /ينتقل في دورة	Cycle – دورة	Discover – يكتشف
Explain – يشرح	Bleeding – النزيف	Virus – فيروس
Mixture – خليط	Oxygenated blood – الدم المحمّل بالأكسجين	Directly – مباشرةً
Believe – يعتقد	Arrive – يصل	Process – عملية
In the past – في الماضي	Earlier – في وقت سابق	Actually – في الواقع
Wrongly – بطريقة خاطئة	Research – بحث	Scientist – عالم

Abdullah:
Welcome listeners! Today we are going to talk about how blood moves around the body and who discovered the process. We have Dr. Al Shamsi here with us today to answer our questions. Welcome doctor.

Dr. Al Shamsi:
Thank you.

Abdullah:
First of all, what is blood?

Dr. Al Shamsi:
Blood is made of plasma and three different types of blood cells. Plasma is a mixture of 90% water and it gives the body energy. Red blood cells carry oxygen around the body. White blood cells clean the blood and fight viruses. Platelets help stop bleeding.



Abdullah:
So, how does blood move through the body?

Dr. Al Shamsi:
Blood is carried through the body by blood vessels: arteries and veins. When the heart beats, it pumps blood through the blood vessels. Blood goes into the heart and then it is sent to the lungs to get oxygen. The oxygenated blood is sent back to the heart and then it is pumped through the arteries. The blood sends oxygen to cells around the body and then it is carried back to the heart through the veins. When it arrives at the heart it gets more oxygen from the lungs and then repeats the cycle.



Abdullah:
Who discovered how blood moves around the body?

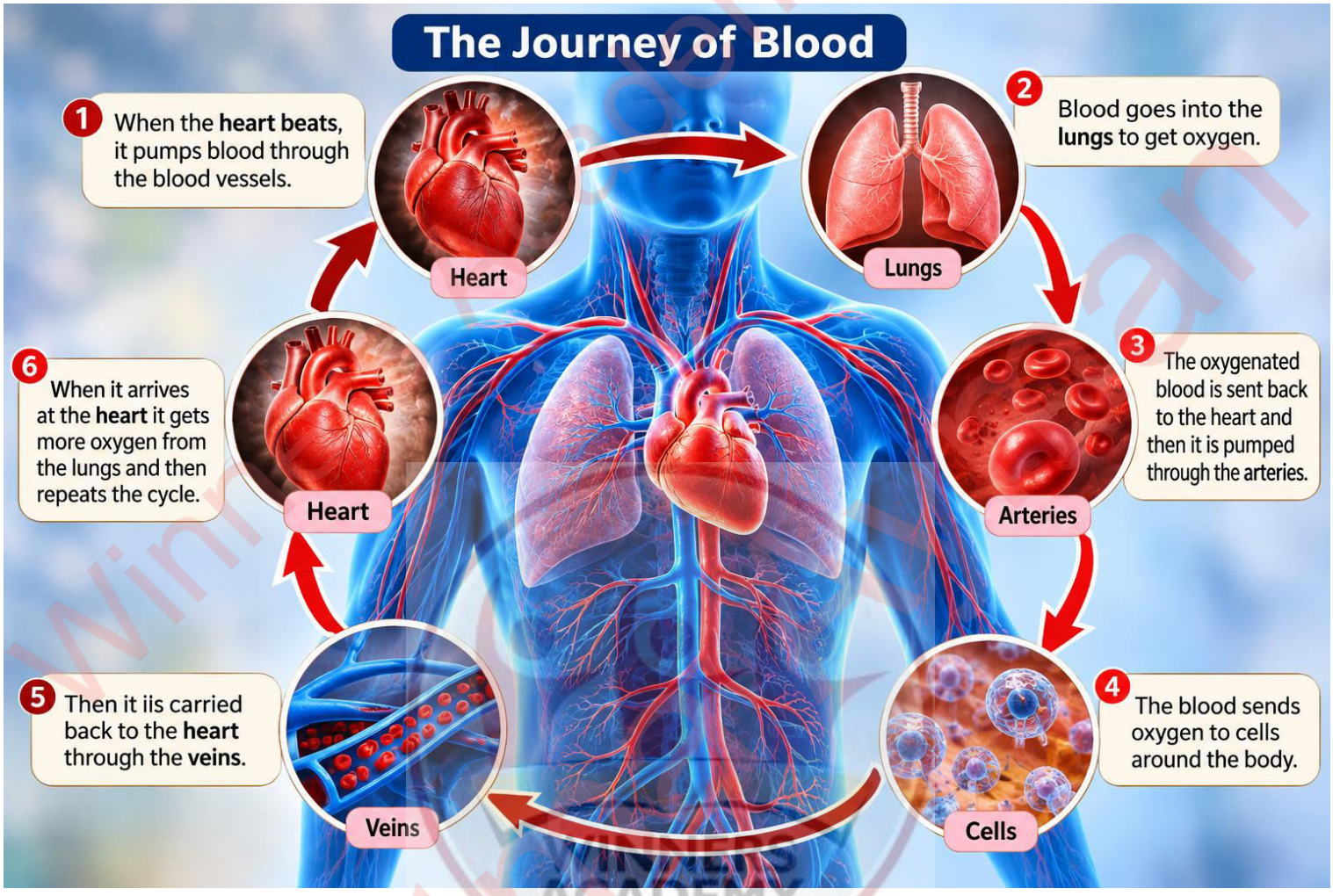
Dr. Al Shamsi:
In the past, it was believed that William Harvey discovered how blood moves around the body. In the 1600s he wrote a book to explain that blood circulates from the heart to the lungs, and from the heart to the body. Actually, it was discovered by Ibn al-Nafis 300 years earlier. He explained that blood moves from the right side of the heart to the lungs and back to the left side of the heart in a cycle and he described how blood moves around the body. Before this, it was wrongly believed that blood travels directly from the left to the right side of the heart.



Abdullah:
How interesting! Well thank you for answering our questions Doctor!

Dr. Al Shamsi:
You're very welcome.

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Choose the correct answer (A, B, or C).

1. What is the main function of red blood cells?
A) To fight infections B) To carry oxygen around the body C) To stop bleeding

2. Why is plasma important for the body?
A) It helps the body get energy. B) It pumps blood through the heart. C) It fights all viruses.

3. Which blood component helps the body fight viruses?
A) Platelets B) Plasma C) White blood cells

4. What happens when the heart beats?
A) Blood stops moving.
B) Blood is pumped through blood vessels.
C) The lungs stop working.

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5. Why does blood travel to the lungs?
A) To get oxygen B) To produce platelets C) To clean the stomach

6. What is the difference between arteries and veins?
A) They have the same function.
B) They carry oxygen only.
C) They are two types of blood vessels.

7. What happens after blood gets oxygen from the lungs?
A) It returns to the heart.
B) It moves directly to the stomach. C) It leaves the body.

8. How does the body receive oxygen?
A) Through the bones B) Through the blood C) Through the skin only

9. What happens when blood reaches the heart again?
A) It stops circulating.
B) It changes into plasma. C) It gets more oxygen from the lungs.

10. Which statement best describes blood circulation?
A) Blood moves in a continuous cycle. B) Blood moves only when we sleep.
C) Blood travels in one direction and stops.

11. Why was William Harvey famous?
A) He discovered white blood cells. B) He wrote about how blood circulates.
C) He invented the heart.

12. When did William Harvey explain blood circulation in his book?
A) In the 1400s B) In the 1800s C) In the 1600s

13. Who explained blood circulation before William Harvey?
A) Ibn al-Nafis B) Dr. Al Shamsi C) Abdullah

14. How much earlier did Ibn al-Nafis make his discovery?
A) About 100 years B) About 300 years C) About 500 years

15. What did Ibn al-Nafis explain about blood movement?
A) Blood moves only through the lungs.
B) Blood travels directly between both sides of the heart.
C) Blood moves from the right side of the heart to the lungs and then to the left side.

16. What was the incorrect belief about blood in the past?
A) Blood travelled directly from the left to the right side of the heart.
B) Blood carried oxygen around the body.

C) The heart pumped blood through vessels.

17. Why is Ibn al-Nafis's discovery important?
A) He discovered the function of platelets. B) He explained an important part of blood circulation centuries earlier. C) He invented a new type of blood vessel.

18. What can we learn from the history of blood circulation?
A) Scientific discoveries can be made by people from different periods.
B) Scientists never change their ideas. C) Old scientific information is always correct.

19. What is the purpose of Abdullah's conversation with Dr. Al Shamsi?
A) To describe a hospital visit B) To explain how to become a doctor
C) To provide information about blood and its circulation

20. Which title is most suitable for the conversation?
A) The Human Heart and Its Diseases B) Understanding Blood Circulation
C) A Visit to the Hospital

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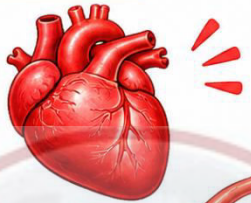
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1 Choose words from the box to complete the sentences.

heart • blood • body • discovered
arteries • blood vessels • veins

How does blood move around the body?



1. The ..... moves ..... around the body.
2. Blood travels through our ..... .
3. The ..... carry oxygenated blood around the body. The ..... carry blood back to the heart.
4. The way blood moves in the ..... was ..... by Ibn al-Nafis in the 13th century.



Choose the correct word to complete each sentence.

1. The red liquid that moves around our body is called _____.

A) Plasma B) Blood C) Oxygen D) Mixture

2. _____ is the liquid part of blood.

A) Platelets B) Veins C) Plasma D) Arteries

3. _____ carry oxygen around the body.

A) Red blood cells B) White blood cells C) Platelets D) Viruses

4. White blood cells help the body fight _____.

A) Oxygen B) Plasma C) Cells D) Viruses

5. _____ help stop bleeding when we get injured.

A) Arteries B) Platelets C) Lungs D) Veins

6. Blood travels around the body through _____.

A) Blood vessels B) Lungs C) Mixtures D) Viruses

7. _____ carry blood away from the heart.

A) Veins B) Cells C) Arteries D) Platelets

8. _____ carry blood back to the heart.

A) Arteries B) Lungs C) Plasma D) Veins

9. The _____ pumps blood around the body.

A) Heart B) Brain C) Stomach D) Lung

10. We use our _____ to get oxygen from the air.

A) Arteries B) Veins C) Lungs D) Platelets

11. The heart _____ blood through the blood vessels.

A) discovers B) pumps C) explains D) arrives

12. My heart begins to _____ faster when I run.

A) circulate B) discover C) explain D) beat

13. Blood carries oxygen to all the _____ in our body.

A) cells B) cycles C) mixtures D) viruses

14. Blood continues to _____ around the body.

A) arrive B) believe C) circulate D) explain

15. The blood circulation _____ repeats again and again.

A) mixture B) cycle C) process D) scientist

16. Scientists _____ new information through research.

A) pump B) beat C) arrive D) discover

17. The teacher will _____ how blood moves around the body.

A) explain B) circulate C) bleed D) pump

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18. The doctor helped the patient stop the _____.
A) oxygen B) mixture C) bleeding D) cycle

19. A _____ can cause illness in the human body.
A) platelet B) virus C) artery D) cell

20. Air is a _____ of different gases.
A) cycle B) process C) vessel D) mixture

21. _____ blood contains oxygen.
A) Oxygenated B) White C) Empty D) Direct

22. The blood does not travel _____ from one side of the heart to the other.
A) wrongly B) earlier C) directly D) actually

23. When we _____ a place, we have reached it.
A) discover B) arrive C) explain D) believe

24. The heart and blood vessels work together in a special _____.
A) virus B) mixture C) scientist D) process

25. Many people _____ that William Harvey discovered blood circulation.
A) believe B) pump C) beat D) arrive

26. Ibn al-Nafis described blood circulation _____.
A) directly B) wrongly C) actually D) clearly

27. The scientist made a _____ discovery about the human body.
A) bleeding B) oxygenated C) wrong D) important

28. The doctor carried out careful _____ to learn more about blood.
A) research B) cycle C) mixture D) oxygen

29. A _____ studies science and makes discoveries.
A) patient B) scientist C) listener D) visitor

30. Some people understood the process _____, so they had incorrect information.
A) directly B) actually C) wrongly D) earlier

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