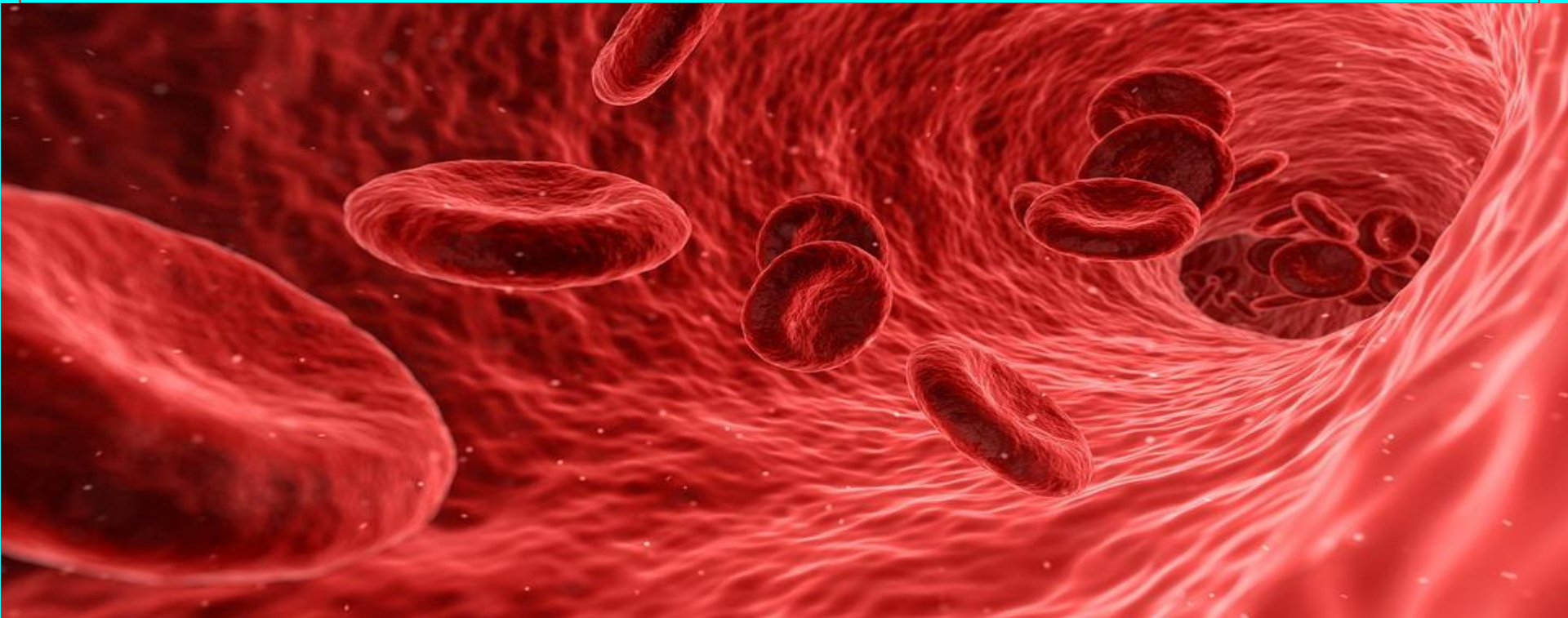
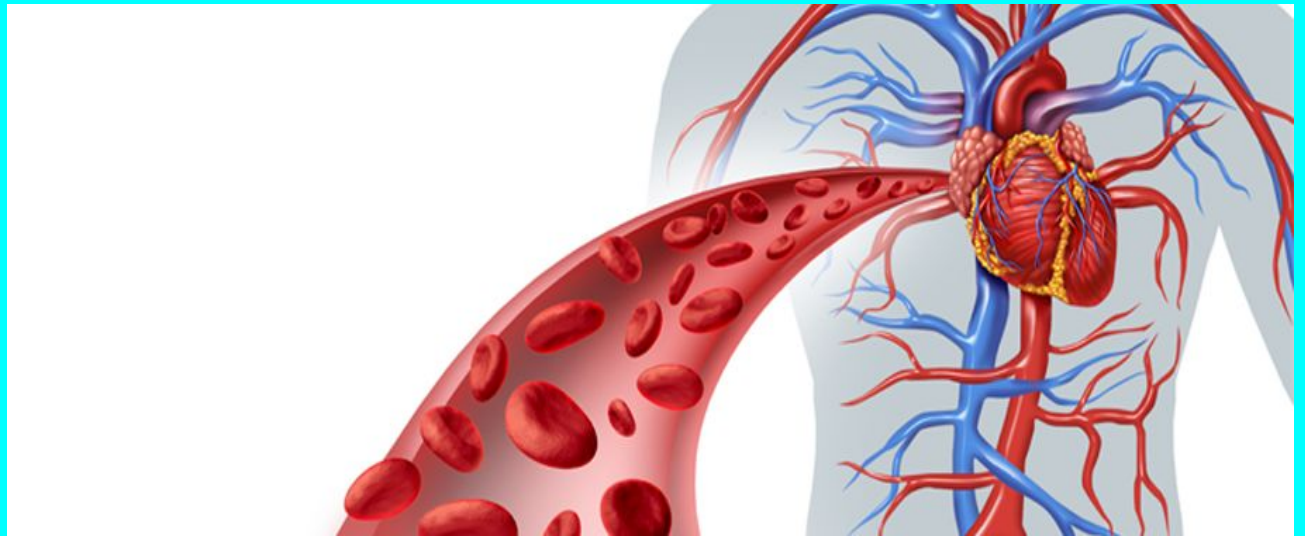
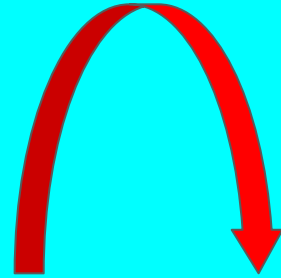


Theme of the lesson:
“Blood and its functions”



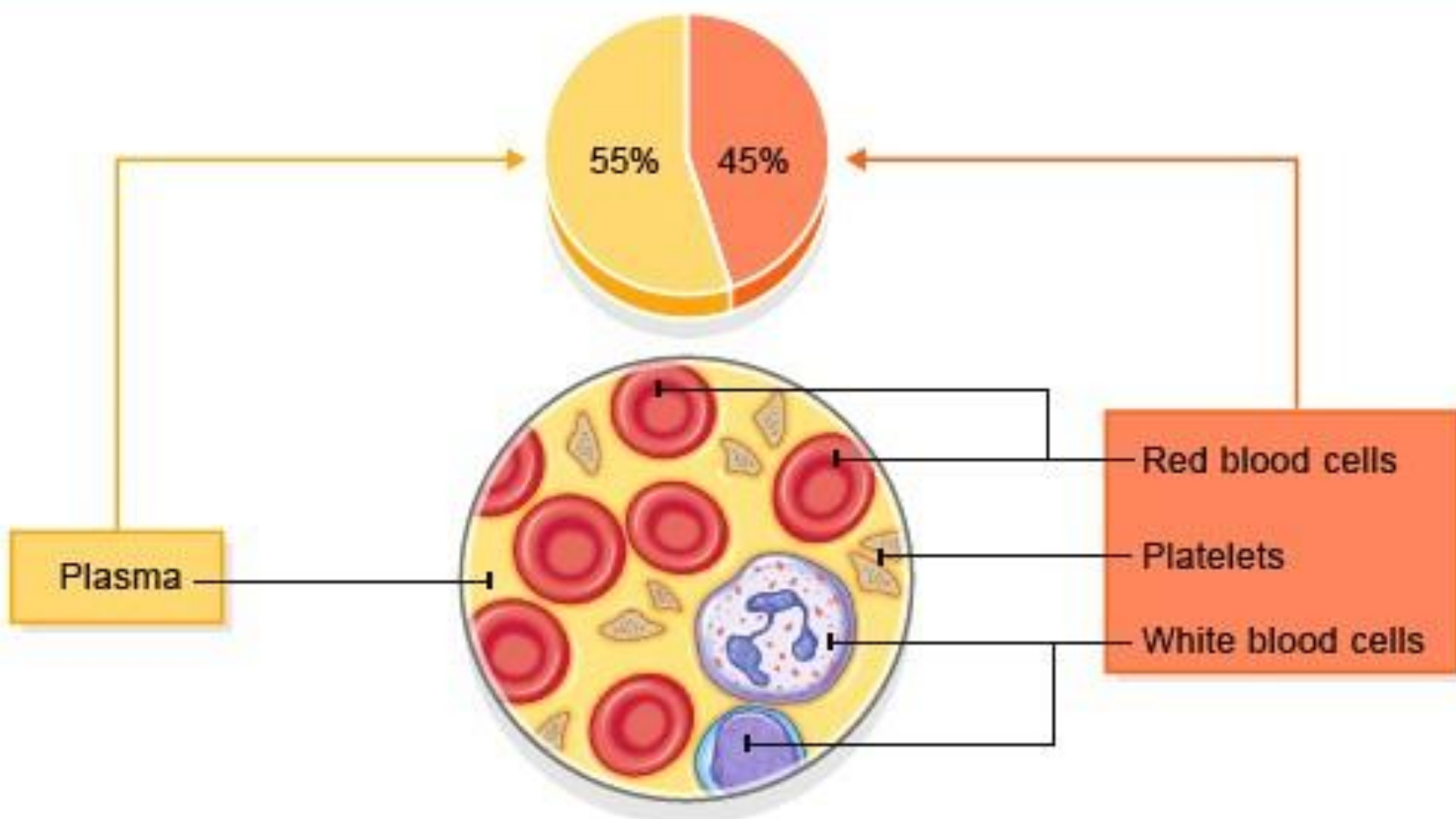
Why do we need blood?
Зачем нам нужна кровь?
Бізге қан не үшін қажет?



Blood is made up of four parts or components: plasma, red blood cells, white blood cells, platelets.

Кровь состоит из четырех компонентов: плазмы, красных кровяных клеток, лейкоцитов, тромбоцитов.

Қан төрт бөліктен тұрады: плазма, қызыл қан жасушалары, ақ қан жасушалары, тромбоциттер.



What are blood vessels?

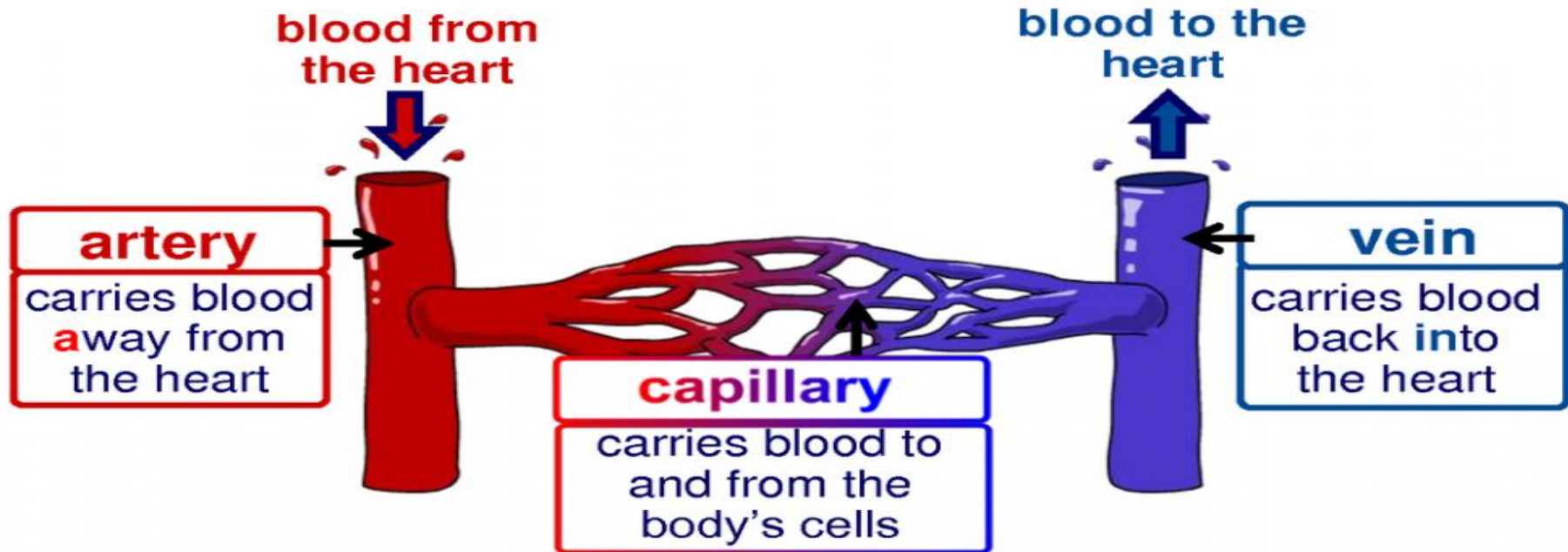
Что такое кровеносные сосуды?

Қан тамырлары қандай болады?



Blood vessels

There are **three types** of **blood vessels**, as shown in this magnified part of the circulatory system.



Why are there different types of blood vessels?



Blood vessels

Arteries

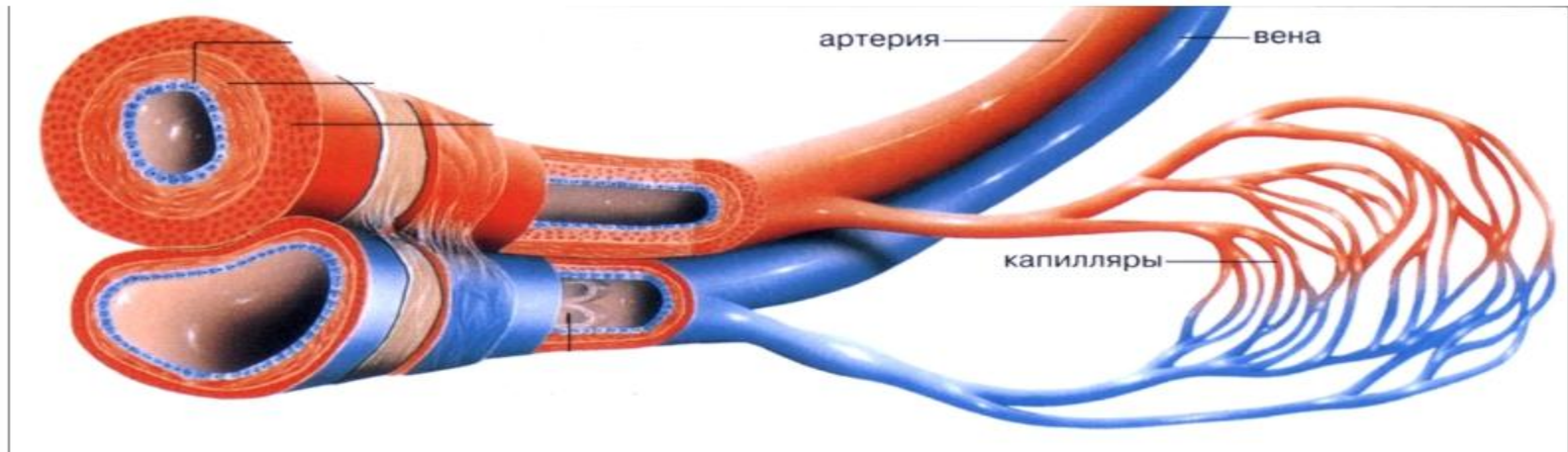
vessels carrying
blood away from the
heart

Veins

vessels returning
blood to the heart

Capillaries

thin-walled vessels



Blood has following functions:

Кровь выполняет следующие функции:

Қанның келесі функциялары бар:

FUNCTIONS OF BLOOD

TRANSPORTATION

- Respiration
- Nutrient carrier from GIT
- Transportation of hormones from endocrine glands
- Transports metabolic wastes

REGULATION

- Regulates pH
- Adjusts and maintains body temperature
- Maintains water content of cells

PROTECTION

- WBC protects against disease by phagocytosis
- Reservoir for substances like water, electrolyte etc.
- Performs haemostasis

Кровь у взрослых – 6-8 % от массы тела,

(adult blood - 6-8 % from weight of a body)

у детей (children blood) – 9 %,

у новорожденных (newborns blood) – 13-15 %

Функции крови (Functions of blood) :

- 1. Трофическая (trophic)**
 - 2. Экскреторная (excretion)**
 - 3. Дыхательная (respiratory)**
 - 4. Защитная (protective)**
 - 5. Гуморальная, регуляторная
(regulation over humor)**
- 1. Гомеостатическая (homeostatic)**

Thank you for seeing the slides!

