

9 Blood vessels and blood – Part 2

Name: _____ Class: _____ Date: _____

Vocabulary 词汇

Write each word three times. 把每个单词抄写三遍。

English	中文	Write it 3 times (English)
arteries	动脉	_____
veins	静脉	_____
valves	瓣膜	_____
capillaries	毛细血管	_____
red blood cells	红细胞	_____
oxygen	氧气	_____
haemoglobin	血红蛋白	_____
white blood cells	白细胞	_____
platelets	血小板	_____
clot	凝血	_____
plasma	血浆	_____

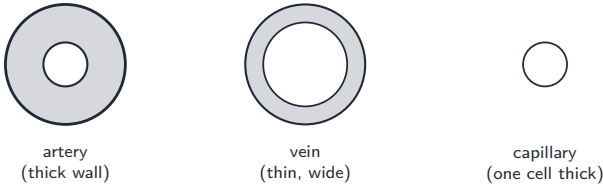
Recall

Blood travels in three kinds of vessel and is made of four parts.

New ideas

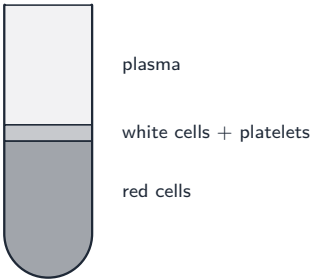
Read these first, then do the Practice.

■ 1 Blood vessels



Vessel	Job
arteries 动脉	carry blood away from the heart, at high pressure
veins 静脉	carry blood back to the heart; have valves 瓣膜
capillaries 毛细血管	one cell thick; let substances pass between blood and cells

■ 2 What blood is made of



- **red blood cells** 红细胞 carry **oxygen** 氧气 using **haemoglobin** 血红蛋白;
- **white blood cells** 白细胞 defend against disease;
- **platelets** 血小板 help the blood **clot** 凝血;
- **plasma** 血浆 is the liquid that carries everything else.

Watch out: **arteries** carry blood *away* from the heart at high pressure (thick walls); **veins** carry it *back* at low pressure and have **valves**; **capillaries** are one cell thick for exchange. “Artery = away” is the way to remember it.

Practice

Try these in order.

9.6 Which vessels carry blood **away** from the heart? [1]

9.7 Why do veins have valves? [1]

9.8 Why are capillary walls only one cell thick? [1]

9.9 Which part of the blood carries oxygen, and what does it use to do so? [2]

9.10 What is the job of the platelets? [1]

9.11 Challenge. Give **two** ways the structure of an artery suits carrying blood at high pressure. [2]