

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	_____	_____	_____

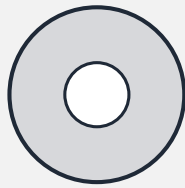
Recall

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

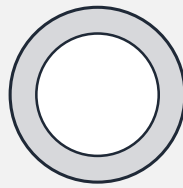
New ideas

Read these first, then do the Practice.

■ 1 Blood vessels



artery
(thick wall)



vein
(thin, wide)



capillary
(one cell thick)

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



plasma

white cells + platelets

red cells

- **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]