

9 Blood vessels and blood – Part 2

Name: _____ Class: _____ Date: _____

Vocabulary

Write each word three times.

English	Write it 3 times (English)		
arteries	_____	_____	_____
veins	_____	_____	_____
valves	_____	_____	_____
capillaries	_____	_____	_____
red blood cells	_____	_____	_____
oxygen	_____	_____	_____
haemoglobin	_____	_____	_____
white blood cells	_____	_____	_____
platelets	_____	_____	_____
clot	_____	_____	_____
plasma	_____	_____	_____

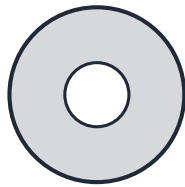
Recall

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

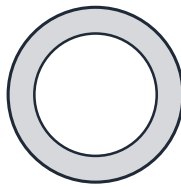
New ideas

Read these first, then do the Practice.

■ 1 Blood vessels



artery
(thick wall)



vein
(thin, wide)



capillary
(one cell thick)

Vessel	Job
arteries	carry blood away from the heart, at high pressure
veins	carry blood back to the heart; have valves
capillaries	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 carry **oxygen** using **haemoglobin** ;
- white blood cells defend against disease;
- platelets help the blood **clot** ;
- plasma 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]