

Blood homework

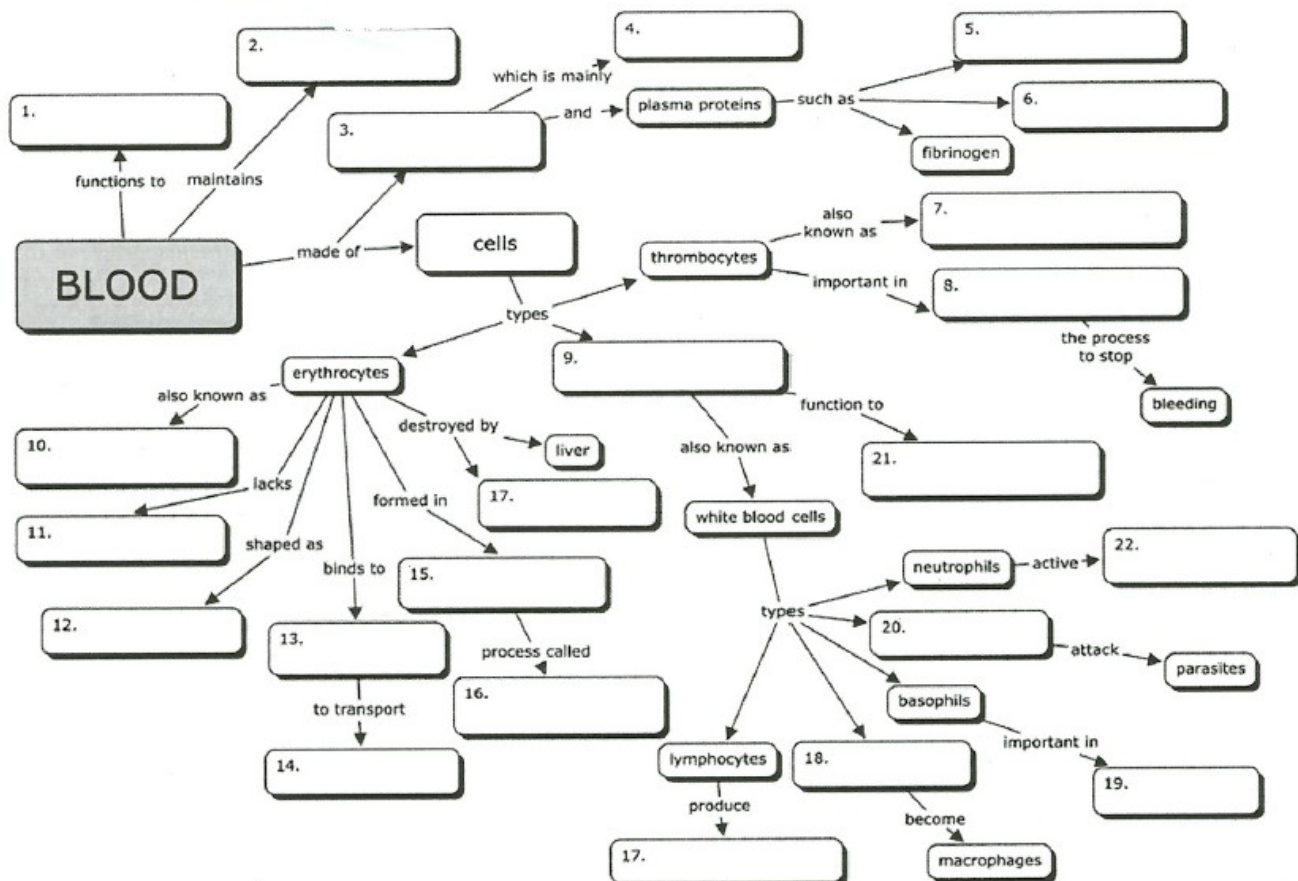
A Watch the video and complete the gaps.

- 1 Blood is actually a _____ of cells suspended in a slightly-yellowish _____ called plasma.
- 2 Plasma is _____ up mostly of water, but it also contains _____, sugars, hormones and _____.
- 3 RBC make up _____ of your blood. They're round and look a little like a _____.
- 4 Their main job is to _____ oxygen to the other cells of the body and to take away the carbon dioxide as a _____ product.
- 5 RBC only live for _____, but healthy bone marrow produces _____ RBC every hour.
- 6 WBC fight infection from _____, _____, all those nasty _____ that can cause disease.
- 7 When at last they find the invader _____, they quickly move in for the kill.
- 8 Platelets are small pieces of _____ or cytoplasm whose job it is to plug _____ in a vessel's walls.
- 9 Platelets form a plug that stops the loss of blood within _____ minutes.
- 10 A platelet plug will last for only _____ hours.

B Complete the mind map with words from the box:

red blood cells / homeostasis / albumins / biconcave disc / bone marrow / transport nutrients / haemoglobin / monocytes / defend against diseases / plasma / leukocytes / spleen / phagocytes / inflammatory reaction / water / platelets / haematopoiesis / eosinophils / oxygen / nucleus / haemostasis / globulins / antibodies

Blood Concept Map

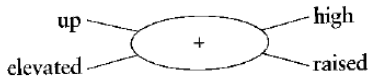


C Reading the blood count results:

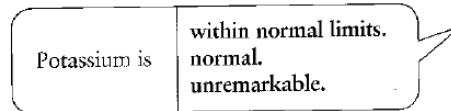
Haematology lab report

Full blood count (FBC)	Value	Range	Unit
Haemoglobin (Hb)	143	115-165	g/L
Haematocrit (HCT)	0.224	0.37-0.47	L/L
Mean cell volume (MCV)	72.5	78.0-98.0	fL
White cell count (WCC)	7.4	4.0-11.0	$10^9/L$

Terms used to describe lab results



When the results are within the normal range, doctors say:



Unit abbreviation	Full form
g/L	grams per litre
L/L	litres per litre
$10^9/L$	times ten to the power nine per litre
fL	femtolitres
mmol/L	millimols per litre
$\mu\text{mol/L}$ or $\mu\text{mol/L}$	micromols per litre
U/L	units per litre

Complete the sentences describing the results of the report above:

- 1 Haemoglobin is _____, one hundred and forty-three _____ litre.
- 2 Haematocrit is _____, 0.224 _____ litre.
- 3 Mean cell volume is _____, 72.5 _____.
- 4 White cell count is _____, 7.4 _____