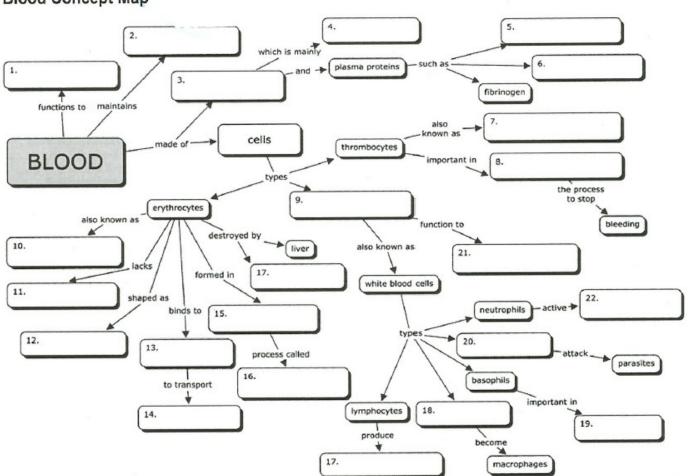
## Clinical haematology worksheet

## Blood video

1 Blood is actually a	of cells sus	spended in a slightly-yell	lowish calle	ed plasma.
2 Plasma is	up mostly of water, b	out it also contains	, sugars, hormo	nes and
3 RBC make up	of your blood. Th	ney're round and look a	little like a	·
4 Their main job is to product.	oxygen to	o the other cells of the b	oody and to take away th	e carbon dioxide as a
5 RBC only live for	, but healthy b	one marrow produces _	RBC every h	nour.
6 WBC fight infection from	m,	, all those nasty	that can c	ause disease.
7 When at last they find t	he invader	, they quickly n	nove in for the kill.	
8 Platelets are small piece walls.	ces of	or cytoplasm whose	e job it is to plug	in a vessel's
9 Platelets form a plug th	at stops the loss of bl	lood within	minutes.	
10 A platelet plug will las	t for only	hours.		

## **Blood Concept Map**



## **Blood reading**

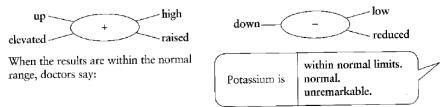
Complete with the words in the box:

concentration	paramete	arc	bloodstream	fluid	number
differential	circulate	sample	volume	naia	characteristics
_		· · · · · · · · · · · · · · · · · · ·		(1) in blood.	Blood consists of three types of
cells suspended in	(2) called plasma:	white blood	cells (WBCs), re	ed blood cells	(RBCs), and platelets (PLTs).
They are produced and	mature primarily	in the bone m	narrow and, unde	r normal circu	mstances, are released into the
(3) as needed.					
					(4), including counts of the
cells that are present in	a person's	(5) of blood	. The results of a	CBC can prov	vide information about not only
the (6) of cel	l types but also ca	n give an ind	dication of the p	hysical	(7) of some of the cells. A
standard CBC includes	the following:				
• Evaluation of w	white blood cells: W	BC count; m	ay or may not inc	clude a WBC _	(8)
• Evaluation of	red blood cells: R	BC count, h	emoglobin (Hb)	, hematocrit (	Hct) and RBC indices, which
includes mean corp	ouscular volume (M	ICV), mean c	orpuscular hemo	globin (MCH)	, mean corpuscular hemoglobin
(9) (MCI	HC), and sometime	s red cell dis	tribution width (	RDW). The R	BC evaluation may or may not
include reticulocyt					
• Evaluation of	platelets: platelet c	ount; may or	may not includ	e mean platel	et (10) (MPV) and/or
platelet distribution	n width (PDW)				
Blood test results and	l fill-in				

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 <sup>9</sup> /L

Terms used to describe lab results



Unit abbreviation	Full form
g/L	grams per litre
Ĭ/L	litres per litre
10 <sup>9</sup> /L	times ten to the power nine per litre
fL	femtolitres
mmol/L	millimols per litre
umol/L or µmol/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		