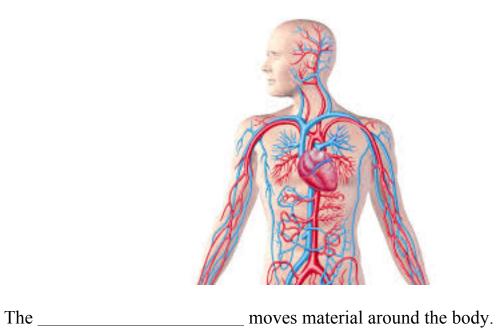
3.1 What is the Circulatory System?



Think of the circulatory system a	s The transportation
system in a city consists of roads	, trucks, buses, and cars to move people and
things around a city.	
The Body's Transportation Sys	stem (p. 63)
The circulatory system is the bod	y's transportation system.
It moves and	to each cell and then takes away
cells' wastes.	
There are three major parts of the	e circulatory system:
1)	
2)	

3)	

Blood – A Liquid Tissue (p. 64)

		de up of 4 different par 	rts:
	a) carı	ries	
	b) carr	ryto cells	
	c) carr	ies away	
	d) mo	ves	around the body
		EX:	is made in the lower back and
		then sent to heart and	muscle cells to tell the body to be more
2) _		Blood Cells-	your body's calls
	·		
		oxygen	when they are carrying
			ygen to the cells, they turn a
		- make up nearly	of your blood

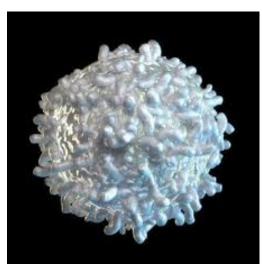
DISORDER:			– disease in which	
red blood cells do	not carry oxygen	to cells as we	ell as normal cells	



(Red blood cells)

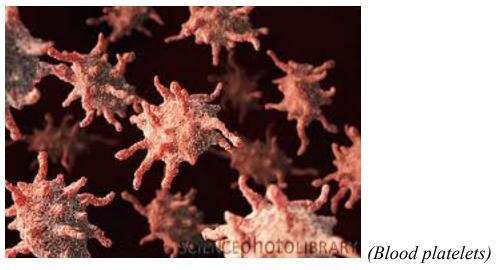
3)_	Blood Cells- are like	or blood
	a) they protect your body from	and other harmful things
	in 2 ways:	
	1) they	_ and break down germs, pieces
	of waste, and dead cells	
	2) make	_ that kill germs
	b) when the body has an	, the number of white
	blood cells	<u>.</u>

EX: people with	have	white blood
cell counts because the	ir bodies are trying rea	ally hard to fight
the disease		
DISORDER:	a form of co	ancer in which the
person's white cells increase	too quickly	



(White blood cell)

4)	pieces of cell that float in the blood	
a) stop	by clumping together and sticking to	
the edges of a cut		
b) they form	(a plug) to stop the bleeding	
DISORDER:	– when a blood clot moves from	
where it forms and	a blood vessel	



Blood Vessels (p. 66)

Blood vessels are like the		of your body. They carry
blood through different types of	of vessels or tubes.	
There are 3 types of blood vess	sels:	
1)	blood vessels that	carry blood with lots of
oxygen away from your	heart to other parts of	of your body
2)	smallest type of b	lood vessel which are the
connectors from your ar	teries to your veins	
3)	take blood back t	o the heart which will
circulate it to the lungs f	or oxygen	
a)	_ – act like doors to	keep blood flowing in
one direction		

EX: valves close if blood begins to flow away from the heart

* If all your blood vessels were	e laid out on the ground, they would stretch
around the	_more than
The Heart (p. 68)	
The heart has two sides: the	and the
	the where it gets
The blood then flows to the left through the body.	t side of the heart where it is
Each side of the heart has two p	parts: <u>and</u> .
Upper part =	
Lower part =	
When you are running, your hea	eart pumpsto get more
oxygen to your	·
When you are sleeping, it beats	s much
* Your heart might beat nearly	times during you
life!	