Vocabulary Chapter 6

- 1. triage
- 2. pulse
- 3. blood pressure
- 4. systolic
- 5. diastolic
- 6. body temperature
- 7. rate of breathing
- 8. shock
- 9. hyperthermia
- 10. hypothermia
- 11. stressors
- 12. histamines
- 13. antihistamines
- 14. autoimmune disease
- 15. Pathogen

pathogens

foreign bodies, such as bacteria or virus, that

cause disease

hypothermia

when the body core temperature is below

normal

shock

occurs when the blood pressure is too low

triage

prioritizing patients for treatment based on vital signs & condition

hyperthermia

core body temperature

is above normal

pulse

normal for this in humans about 70 beats per minute (bpm)

temperature

this can increase with infection. Normal

human body temperature

is 98.6 degrees

autoimmune

this type of disease attacks the body's

self.

Systolic

pressure when the heart is squeezing blood out against blood vessel walls; it is the top number in a blood pressure reading

histimines

these chemicals cause itchy, watery eyes and constricted smooth muscle

Name	Period Date			
	<u>Video Worksheet</u> <u>"An Inside Look at the Flu"</u>			
1.	What is the name of the virus that invaded Holly Jones' body?			
2.	What does the virus look like? (draw a picture)			
3.	Use a flow chart to show the pathway of the virus from the time it enters Holly's nose until it reaches her throat.			
4.	What trick does the virus play on Holly's throat cells to get inside?			
5.	What does a virus do once it gets into a cell?			
6.	Name the cells that are the body's first immune response against foreign invaders like viruses			
7.	Name the two immune cells that can kill viruses and the methods each uses. Immune Cell Method of Virus Destruction a b			
8.	What are the names of the cells that remain in Holly's body to fight the flu if she is ever exposed again?			
9.	What can a virus like the flu do so that Holly's immune system won't recognize it in the future?			

Essay p. 246: Avoiding Disruptions: The Immune System

The system that protects our body is called the system. The body's largest
organ and first line of defense against germs for the immune system is the But
the is not sterile (which means there are no living organisms on it). It has
millions of beneficial on it that fight disease-causing microorganisms
known as ""
But openings to our body, such as the, and
& openings need additional defenses to
these natural openings. The secretions that protect these openings include
and
If there is a on the skin, pathogens can directly invade the body. Then, other immune system defenses need to take over.
Macrophages, Helper T-Cells and Killer T-Cells
A is a defense cell that "scavenges" for many types of pathogens and toxins in the lungs protect the body against pathogens the humans
Macrophages also signal, which direct other immune cells to attach only certain invaders, as compared to the "nonspecific" immune cells.
Helper T-Cells can activate, which kill "specific infected cells."
Cell-Mediated Response
When Helper T-Cells activate Killer T-Cells, it is called the "" This is an important defense against, because a virus enters the cells of their host, and cannot find them.
Viruses use the host cell for <u>protection</u> and to Because viruses live inside the host's cells, are effective against but are not effective against viruses. Most chemicals that will kill a virus-infected cell will also kill cells. But can distinguish between cells infected by viruses and uninfected cells. Infected cells have a <u>unique molecule</u> on their surface that Killer T-Cells recognize and know to destroy <i>that</i> cell.
B-Cells
Macrophages can also help activate, which produce Antibodies are that recognize the protein on pathogens called The antibodies bind to the of the pathogen. Macrophages can then destroy the 'pathogens with attached to them.'
This is called response.

-		elf when a person is allergic to a
The body sees these substan		or s" and antibodies are produced. This
		es, itching and
cal	n also cause muscles to	contract and
to This can resu	ilt in a person	The
found in allergy medicines r		
<u></u>		
the immune system are		m weakens. Some stresses that weaken and
Pathog	ens can then take over a	and cause disease. AIDS, or
	, is an extre	eme example of what can happen if the
immune system is damaged virus) directly attacks the he infections.	. If a person has, elper T-cells and the per	the HIV (human immunodeficiency rson is unable to fight off even minor
Essay p. 250: SELF AND NO	ONSELF	
The immune system is effect or	tive because it can disti	nguish between cells that are
The of one blo	ood type into a person v	that identify the <i>blood type</i> of a person. with another blood type will result in the is will cause blood and can result in
Blood Type	Molecule on rbc	Antibody present
0	None	Anti-A, Anti-B
AB	A and B	None
AB	A allu D	None
type is called the "Univ	rersal Recipient." e diseases in which the	called the "Universal Donor" and blood immune system can not distinguish system attacks and damages
Rheumatoid Arthritis, the in	nmune system causes ir	and In nflammation and damage to the mune system destroys the