Name:

Blood Typing Internet Activity

Period:

Check out the website below to answer the questions below.

http://www.wisc-online.com/objects/ViewObject.aspx?ID=AP14804

- 1. Which of the following best describes an antigen?
 - a. A doorway into a red blood cell
 - c. A recognition molecule on the inside of a cell
- b. a recognition molecule on the surface of a cell
- d. a protein that attacks foreign molecules
- 2. Label the blood cells below with the appropriate blood type. Then match them to the antibody that would attack them if mixed in with the RBC's





4. Fill in the chart showing what blood types are "compatible" in the event of a blood transfusion. A (+) means compatible while a (-) means NO! See the example – A patient with type A blood could receive A blood with no problem but could not receive type B. Circle the "best" blood type for that patient.

Patient blood type ↓	Donor blood→	Α	В	АВ	О
Α		+	-		
В					
AB					
0					

5. Draw what happens when an antibody and antigen react.

6. What is RhoGAM? How does it work?

Next site:

http://nobelprize.org/educational games/medicine/landsteiner/readmore.html

1.	Who won the Nobel Prize for his research in blood g	roups?				
2.	What happens when a red blood cell agglutinates? _					
3.	od clumping is areaction which occurs when the			_ of a		
	blood transfusion has agains	n has against the				
4.	Describe an antigen. Draw where one would be	found on the red blood cell \rightarrow .				
5.	Describe an antibody. Where would it be found	in the blood?				
6.	Identify the blood types below. Write the type a	above the box.				
	B antigen A antibody A antigen	A antibody B antibody	A antigen B antibody			
7.	Describe what is meant by a person developing	he Rh antibody.				
8.	Summarize how a blood typing test works in 3 st	eps, each two sentences or less.				
	1.					
	2.					
	3.					

http://nobelprize.org/educational games/medicine/landsteiner/landsteiner.html

	ittp://itosciphize.org/cudditonal_games/meditine/fandstellier/fandstel	
Patient 1:	What is this patient's blood type? Draw in the results of his test: What type(s) of blood did you give him? Explain why these blood types are compatible in terms of antigens/antibodies.	BRh
Patient 2:	What is this patient's blood type? Draw in the results of his test: What type(s) of blood did you give him? Explain why these blood types are compatible in terms of antigens/antibodies.	BRh
Patient 3:	What is this patient's blood type? Draw in the results of his test: What type(s) of blood did you give him? Explain why these blood types are compatible in terms of antigens/antibodies.	A B R
-	research the following topics and describe them: ay blood –	
• Autolog	gous blood donations -	
Duffy b	plood group and its relationship to malaria -	