Name:

Blood Typing Internet Activity

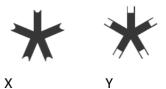
Period:		

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 group	s?		
2.	What happens when a red blood cell agglutinates?			
3.	Blood clumping is areac	ction which occurs when the		_ of a
	blood transfusion has against th	e	·	
4.	Describe an antigen. Draw where one would be fou	nd on the red blood cell $ ightarrow$.		
5.	Describe an antibody. Where would it be found in t	he blood?		
6.	Identify the blood types below. Write the type above	ve the box.		
	B antigen A antibody	A antibody B antibody	A antigen B antibody	
7.	Describe what is meant by a person developing the I	Rh antibody.		
8.	Summarize how a blood typing test works in 3 steps	, each two sentences or less.		
	1.			
	2.			
	3.			

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

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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 -	