Name:	DNA Virtual Labs
GO to http://learn.genetics.utah.edu/content/labs/	
1. Why would you need to extract DNA from a person?	
a. B.	С.
2. Provide three examples of places where you collect cells with DNA (the	e simulation provides one):
3. What is a buccal swab?	0.
4. What does lysis solution and warm water bath do?	
5. What is the purpose of the salt solution?	
6. What does a centrifuge do?	
7. What does soluble mean?	
8. Why do you need to centrifuge the tube a second time?	
PART 2: PCR Reaction	
9. How many base pairs make up the human genome?	
10. What materials are required for PCR?	
11. In order to complete PCR you need a size same	ble.
12. What is a primer?	
13. Why are nucleotides added to the mixture?	
14. At 203 degrees farenheit the DNA	·
15. At 122 degrees the DNA primers	·
16. At 72 degrees DNA polymerase	
17. What happens during cycle three?	
18. After 30 cycles	
PART 3: Gel Electrophoresis	
19. What is gel electrophoresis?	
20. What is the function of the "gel"?	
21 makes DNA move.	

- 22. Which DNA strands will move faster and farther through the gel?
- 23. How do you make the DNA visible?
- 24. Briefly describe how to make the gel:
- 25. What is the DNA size standard?
- 26. In order to see the DNA strands you must do two things: A. B.
- 27. What size bands did you have in your DNA sample? A. B.
- 28. What could be a possible source of error in performing a gel electrophoresis?

C.

Part 4: Reading a Gel Electrophoresis