

DNA Activity 2 worksheet



1. Why would we analyze human DNA?

a. _____ b. _____ c. _____

2. How many meters of DNA do you have in your body? _____

3. Where can we get cells from _____

4. Put steps in order 1-4.

_____ Burst open cells to release DNA _____ Isolate DNA _____ Collect Cells _____ Separate DNA from debris

5. How do you balance the Micro-Centrifuge? _____

6. What happens to protein and debris in the centrifuge? _____

PCR Virtual Lab



1. What does PCR stand for?

P _____ C _____ R _____

2. What can we extract DNA from?

Note: To drag DNA you must "click and hold"

3. How many PRIMERS did you use? _____

4. During which "cycle" do you start to get the desired products? _____



1. What are you holding in the tube? _____

2. What makes the DNA move? _____

3. What size strand moves the fastest? _____

5. What were the lengths of your DNA _____ bp _____ bp _____ bp

4. Put the steps of Gel Electrophoresis in order.

_____ Load the DNA Sample into the Gel _____ Stain the Gel and analyze the results

_____ Make a Gel _____ Hook up the current and run the gel _____ Set up the apparatus

DNA MICROARRAY

Check off when COMPLETED

_____ Chapter 1

_____ Chapter 2

_____ Chapter 3

ANSWER THESE QUESTIONS

1. A human has around _____ genes.

2. What gene is bad in the cancer cell? _____

3. Why doesn't DNA Stay in solution _____

4. What color spots would you study if you want to study cancer? _____