

DNA Activity 1 worksheet

DNA Fingerprinting ... "It Takes a Lickin"

WEBSITE: <http://www.pbs.org/wgbh/nova/sheppard/analyze.html>

Create A DNA Fingerprint

1. DNA is unique for everyone with one exception. What would be an example of that exception? _____
2. What are DNA Fingerprints used for?
A) _____
B) _____

Part 1: "It Takes A Lickin!"

3. What "crime" was committed? _____
4. What bodily fluid was removed from the "crime scene" to get the DNA?

5. How many suspects are there in this crime? _____

Part 2: "DNA Fingerprinting at the NOVA Lab!"

6. What does a Restriction Enzyme do?

7. What is Agarose Gel?

8. What is Electrophoresis?

9. Smaller fragments of DNA move _____ that longer strands.
10. Why do you need to place a nylon membrane over the gel?

11. Probes attach themselves to _____
12. Which chemical in your "Virtual Lab" is radioactive? _____
13. Sketch your DNA Fingerprint in the box

Part 3: Evaluate the Evidence:

14. Based on your DNA Fingerprint...

WHO COMMITTED THE LOLLIPOP CRIME???

