

**Gel Electrophoresis Worksheet**  
**[www.pbs.org/wgbh/nova/sheppard/analyze.html](http://www.pbs.org/wgbh/nova/sheppard/analyze.html)**

Log onto the above website. This site includes a review of electrophoresis. Read the introduction and then click on Part 1: It takes a lickin. Read the story behind DNA extraction. Then click on Part 2: DNA fingerprinting in the in the NOVA lab. Complete the questions below as you work though this Part 2 simulation.

1. What do restriction enzymes do to the DNA?
  
2. What is agarose gel and how does it work?
  
3. Where is the DNA placed in gel electrophoesis apparatus?
  
4. How does electrophoresis work?
  
5. Why do you need a nylon membrane?
  
6. What are probes? How do they work?
  
7. What is the purpose of the X-ray film?
  
8. The X-ray film shows what after development?

**Now that you have run the test and answered the questions, click on continue to get to Part 3: Evaluate the evidence.**

9. Select the culprit and write her name below:

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