

## Gel Electrophoresis Virtual Lab Worksheet

### Instructions

Go to the following link and complete the gel electrophoresis virtual lab:

[https://www.classzone.com/books/hs/ca/sc/bio\\_07/virtual\\_labs/virtualLabs.html](https://www.classzone.com/books/hs/ca/sc/bio_07/virtual_labs/virtualLabs.html)

Select "Gel Electrophoresis" from the list and start the virtual lab.

The lab is based on using gel electrophoresis for DNA fingerprinting. In our lesson, we discussed using gel electrophoresis for nanotechnology, specifically determining if the PEG molecule has been attached to the quantum dot. Even though this lab presents a different application for gel electrophoresis, the lab helps you to understand how this method works!

### Questions

1. Gel electrophoresis is a technique used for separating molecules, such as DNA strands and proteins, according to their lengths.
2. What is the purpose of the power supply? The power supply is used to produce an electric current in the electrophoresis chamber.
3. The TBE buffer solution is used to help carry an electric current.
4. Shorter strands of DNA travel more easily and over time, farther on the agarose gel than do larger strands.
5. Once an electric current is applied, notice that the negative electrode is closest to the wells, and the positive electrode is farthest from the wells.
6. Which suspect is the victim? Suspect 2.  
How do you know? Suspect 2's DNA matches the evidence DNA.
7. Do you think you would find the largest or the smallest fragment of DNA closest to the well? Explain. The largest fragment will be found closest to the well where it began because it will move slower than the smaller fragments, which can move through the gel easier.

# Gel Electrophoresis Lab Answers

**Alan Herbert**



## **Gel Electrophoresis Lab Answers:**

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proceedings of the International Conference on Engineering Education Instructional Technology Assessment and E learning EIAE 2006 All aspects of the conference were managed on line

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roles in the programmed cell death of aging cells Other types of flipons exist and alter the readout of transcripts from the genome encoding genetic information by their shape rather than by their sequence Many of these flipons are within repeat elements that were previously considered to be just genomic junk Instead these genetic elements increase the adaptability of cells by flipping DNA conformation By acting as digital switches the different flipon types can alter cellular responses without any change to their sequence or any damage to DNA These highly dynamic structures enable the rapid evolution of multicellular organisms The junk DNA in repeats also encode peptide patches that enable the assembly of cellular machines The intransitive logic involved enhances the chance of an individual surviving a constantly changing environment Key Features Causes us to rethink how information is encoded in the genome Changes our understanding of how our genome evolved and how we protect ourselves against viruses and cancers while sparing normal cells Shows that high energy forms of DNA such as left handed DNA do exist inside the cell Accessible to those in academia and the general public and speaks to the next generation encouraging them to find their own path in scientific discovery The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivative License CC BY NC ND 4.0 license

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