# The Nail File Crime Aka The Rockina Lab

#### Purpose:

This activity will simulate the use of restriction enzymes and gel electrophoresis in making DNA fingerprints. Some steps have been eliminated to simplify the procedure. However, this lab will allow the positive identification of the guilty suspect.

#### Objectives:

- Students will learn how restriction endonucleases cut DNA at specific base sequences and produce DNA fragments of specific and varying lengths.
- The students will learn how electrophoresis separates different sized fragments of DNA and how these fragments can form a specific, recognizable pattern.
- The students will learn the principles behind the use of DNA fingerprinting for the identification of people.

#### Materials:

3 different dark color pens or colored pencils (red, blue, and green)

#### The Crime:

Late one night, the famous rock star, Rockina, returned to her luxurious penthouse apartment. As she entered the locked apartment, she noticed that everything in her apartment was a mess - drawers had been emptied out onto the floor: the cushions on the couch were ripped open; and the safe that has been hidden behind an oil painting had been opened. She then noticed that the lights were on in her bedroom.

She stormed into the bedroom and surprised a burglar in the process of removing her magnificent (and expensive) jewelry from its hiding place between the mattresses. Indignant, she jumped on the burglar and tried to stab the person with her nail file. While Rockina managed to inflict a small wound, she was no match for the assailant's knife. In the subsequent struggle, Rockina was killed and the murderer escaped with her jewelry.

#### The Investigation

# **Rockina Lab Answer Key**

**Clemens Wendtner** 

#### **Rockina Lab Answer Key:**

Matthew's Rockin' World Superstars Matthew Reese, 2021-08-05 All they want is to rock out to some music and party in 71st century Wonderville But when Professor Joe Parker is kidnapped by his rival Jack Mitchell Matthew M Kool Reese and his posse must embark on an epic quest to save the Professor Time traveling portal hopping and battling false gods is not the party they envisioned While rescuing the Professor M Kool gains godlike powers twice and saves a princess from fascist clowns what other twists and thrills will their adventure unfold As they face off against a giant beast the crew must make a final stand together and kick some serious ass with a rock song to save the world They will not stop until the enemy is vanguished Will they find the courage to conquer their enemy and party harder than they ever have before Records Buyers-Sellers Reference Book and Price Guide 2010 Edition Jerry Osborne, 2010 Rockin' Around the Chickadee Donna Andrews, 2024-10-15 Bells are ringing and alarms are sounding in Donna Andrews latest cheery addition in the New York Times bestselling Meg Langslow series Meg s sister in law Delaney is pregnant Since her due date is on or around Christmas Day this is putting a bit of a damper on the usual holiday festivities Meg and Michael are NOT hosting the usual house full of relatives and parties Instead Meg along with her mother her grandmother her cousin Rose Noire and her good friend Caroline are militantly doing everything they can think of to keep Delaney guiet and healthy All the relatives are farmed out to friends and neighbors all the parties are being held somewhere else and while Delaney is bored and mutinous she's doing well and they re managing to maintain a serene peaceful environment for her until a body is found in Meg and Michael's yard The body turns out to be an attendee at Presumed Innocent a nearby conference that Meg's grandmother has organized Some of the attendees want to learn how to exonerate a friend or family members who has been unjustly convicted while the rest are avid true crime aficionados And since the dead guy has been very vocal about his belief that most actual and would be exonerees are guilty guilty GUILTY nearly everyone at the conference dislikes him But would any of them hate him enough to kill him And can Meg still keep Delaney calm in the middle of a murder investigation all while trying to catch Jerry Osborne's Rockin' Records ,1997 **General Technical Report RMRS** ,1998 War Minerals Report the killer United States. Bureau of Mines, 1942 Technical Publications Announcements with Indexes United States, National Aeronautics and Space Administration, 1962 Scientific and Technical Aerospace Reports, 1982 Resources in Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 Education ,1995 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life CMI New Music Report, 1999-10-04 CMI New Music Report is the primary source for exclusive charts of non commercial and college radio airplay and independent and trend forward retail sales CMJ s trade

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