

1. What does PCR stand for? **Polymerase Chain Reaction**

2. How is PCR useful in investigations?

It allows small/trace samples of DNA to be amplified so there is enough of the sample for testing.

3. Outline briefly how gel electrophoresis works.

- Samples of protein or DNA fragments cut with restriction enzymes are inserted into wells in a gel.
- The gel is placed in a conducting fluid and a charge is passed through the gel.
- Molecules travel through the gel based on their charge and size to create a band pattern of molecule fragments.



4. What are two main uses of DNA profiling by electrophoresis?

- Forensic investigations
- Paternity testing / determining family relationships

5. Use the gel electrophoresis results below to answer these questions.



a. Which criminal, Rob McCarr or Nick Allott, left their cigarette-end at the crime scene? How do you know?

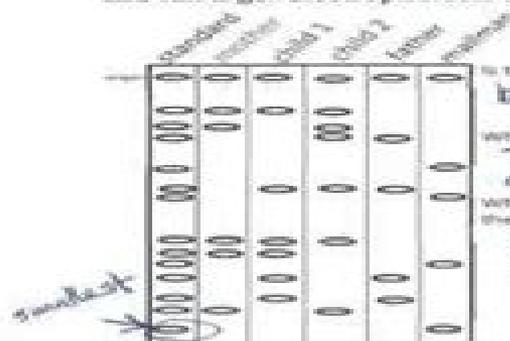
Rob — DNA fingerprint band pattern is a 100% match to the band pattern of the crime scene DNA.

b. Color in bands to show where the 'standard' fragments would be observed.

c. What evidence is there to suggest that Nick and Rob are related?

They share 4 of 7 fragments (Variable Number Tandem Repeats) in common.

6. This father thinks that the second child is not his — he looks too different from him! He has seen the mother and the mailman chatting and is suspicious. He stole some hair from all family members and swabbed a cup the mailman used and ran a gel electrophoresis to confirm his suspicions.



Is the mailman the father of the second child? Why? **No. None of the mailman's unique bands match to any of child 2's bands.**

Which DNA fragment is smallest? How do you know? **The ones at the bottom of the gel since the smaller fragments are able to travel the farthest through the gel pores.**

Why might the first child bear a stronger resemblance to the father than the second child? **Child 1 has more bands/fragments that match to the father (4) than child 2 (only 3).**

7. What is meant by the term 'the genetic code is universal'?

In all cells the same codons will always be translated into the same amino acid (i.e. AUG will always encode the amino acid Methionine).

8. What is a transgenic organism?

An organism that has been modified to contain a new gene (or genes) — usually from a different species, in order to produce a new trait.

Biology Cumulative Final Answer Key

DP Hallahan



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