**DNA Fingerprinting Differentiation Stations**

How Is DNA Fingerprinting Used to Find a Criminal?

Go to <https://www.youtube.com/watch?v=AkBUriMK9u8>, watch the video, and answer the questions below.

1. What kinds of samples can be collected from a crime scene that contain DNA?

2. What is the first step in DNA fingerprinting?

3. What is the purpose of the enzymes added to the DNA?

4. Where are these fragments placed?

5. What is used to separate the fragments of DNA?

6. What size fragments travel the greatest distance?

7. What size fragments travel the shortest distance?

8. To identify the suspect, how are the pattern of bands used?

9. Why are we able to use DNA fingerprinting to successfully identify suspects?

DNA Fingerprinting: Paternity

Go to <https://www.youtube.com/watch?v=K9U2ROBPQb8>, watch the video, and answer the questions below.

1. After the DNA fingerprint is completed, how is the pattern of bands used?

2. How much DNA does each parent contribute to the child?

3. How can the father be identified due to paternity testing?