



How can forensic scientists
use and trace evidence to
explain what happened at a
crime scene?

By Elissa Taha

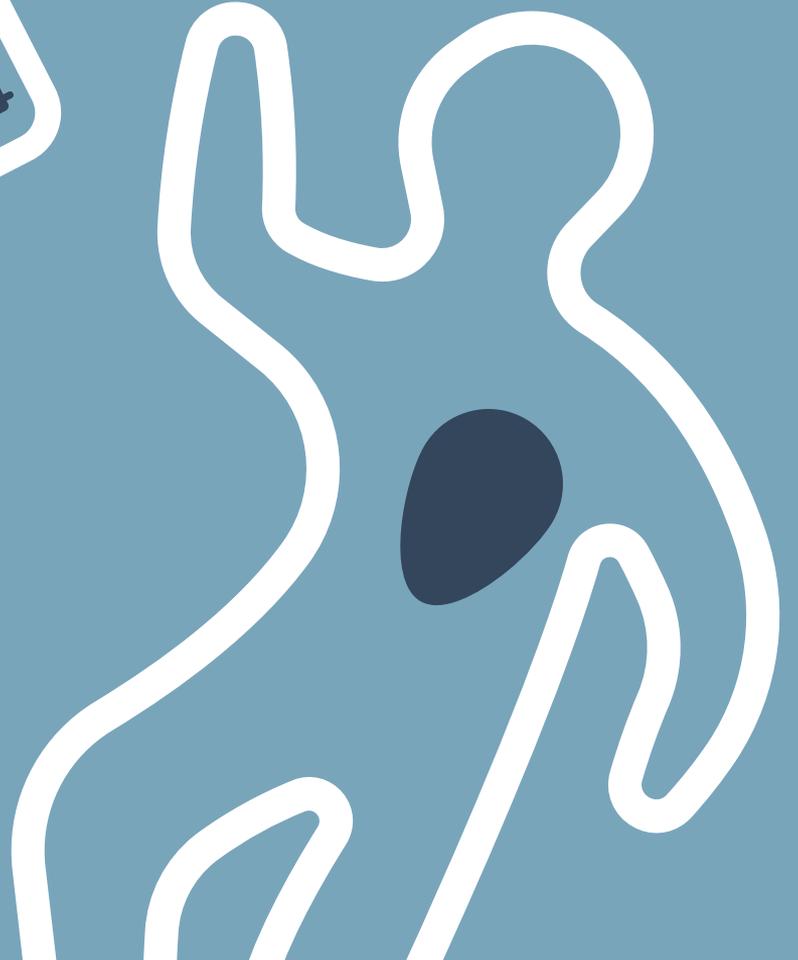


TABLE OF CONTENTS

01 FINGERPRINTS

What are the different types of fingerprints? How are they used to identify a criminal?

02 DNA SAMPLES

How do scientists use DNA to track a criminal?

03 FOOTPRINTS

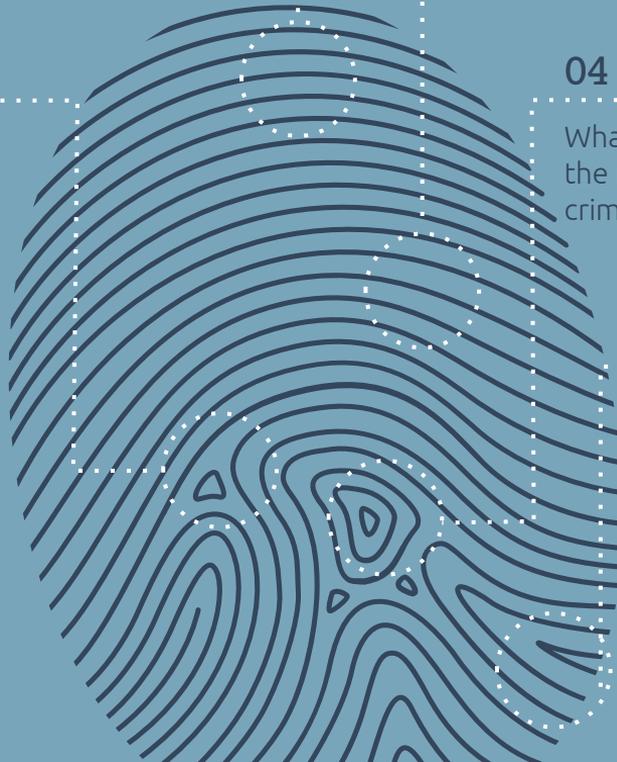
How are footprints helpful to forensic scientists?

04 BIAS

What is bias? How can it affect the ideas people have about a criminal?

05 CONCLUSIONS

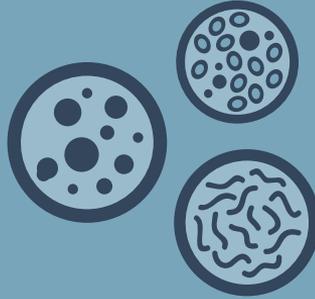
How do all these factors explain what happened at the scene of the crime?



01

Fingerprints

What are the different types of fingerprints? How are they used to identify a criminal?



Fingerprints

- Three different types
- Loop, arch, and whorl

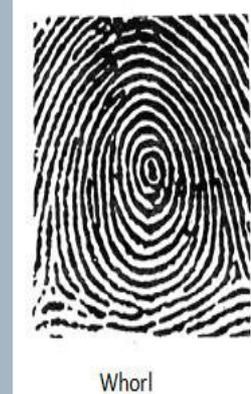
Loop



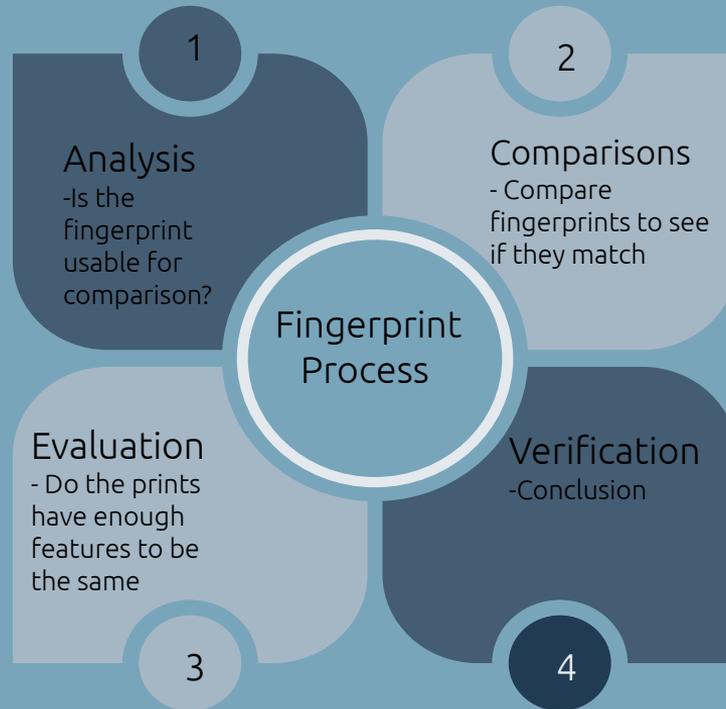
Arch



Whorl



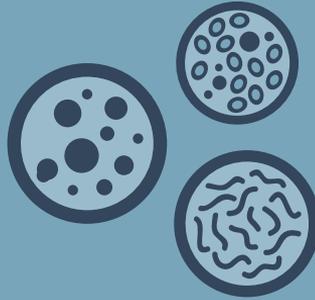
How are fingerprints used to identify a criminal?



02

DNA samples

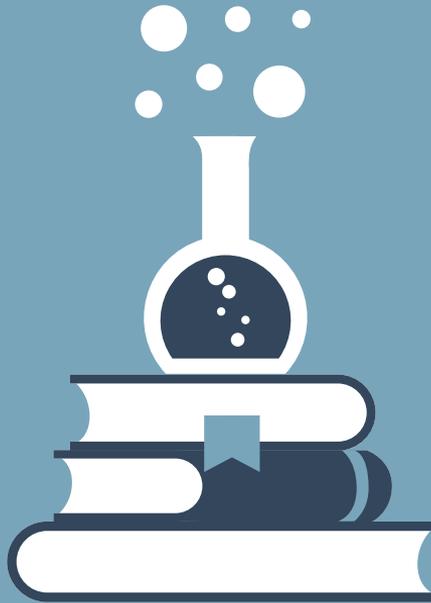
How do scientists use DNA to track a criminal?



How do scientists use DNA to track a criminal?

Sources of DNA

Saliva, blood, hair, cells, and urine



Samples that could contain DNA

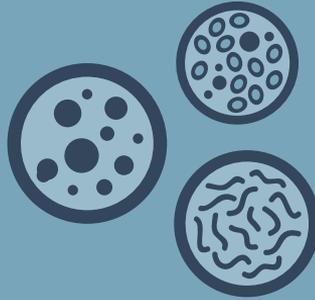
Hairbrushes, toothbrushes, cups clothing, hats, tools, nail clippings

Scientists use these sources and samples to connect to the DNA at a crime scene to the suspect.

03

Footprints

How are footprints helpful to forensic scientists?



How are footprints helpful to forensic scientists?

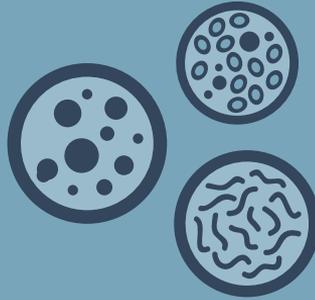
There are three different types/categories for footprints:



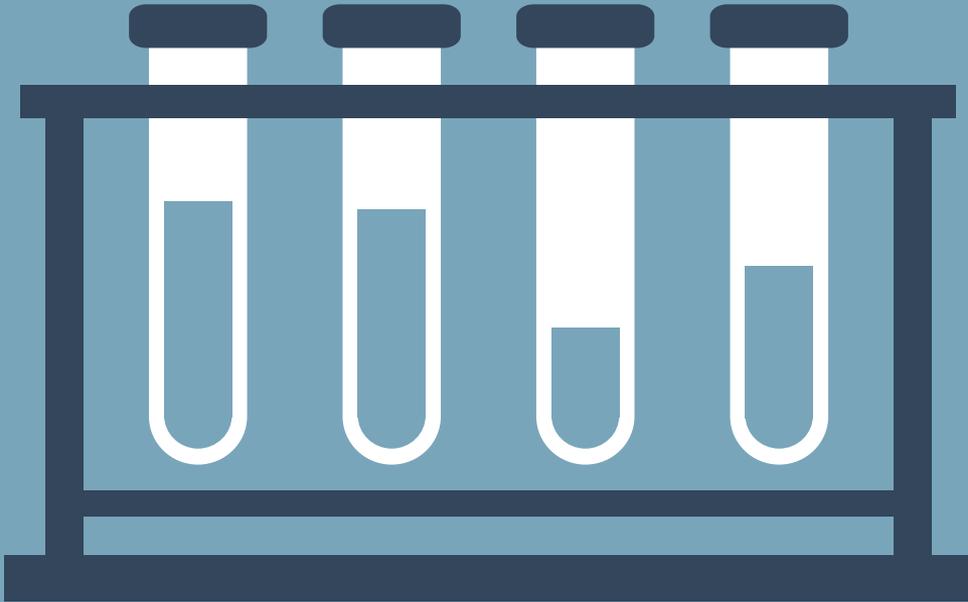
04

Bias

What is bias? How can it affect the ideas people have about a criminal?



What is bias? How can it affect the ideas people have about a criminal?



What is Bias?

- To assume or lean in a certain direction.

What are some types of Bias?

- Gender bias
- Race bias

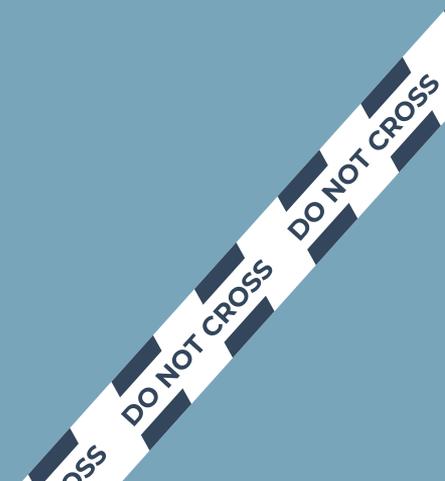
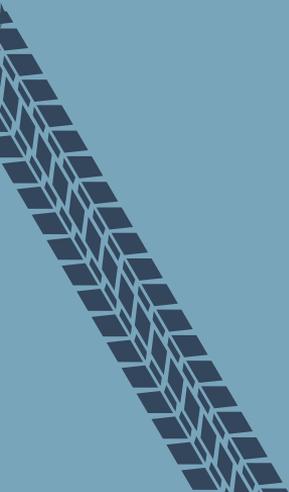
How does it affect an investigation

- People can assume that one person committed a crime because of looks, age, gender, race or behaviour



CONCLUSIONS

How do all these factors explain what happened at the scene of the crime? Well, Footprints, fingerprints, and DNA samples can lead you to a suspect, witness or victim. This can help lead to conclusions in an investigation. Bias can sometimes negatively affect an investigation because it can lead to assumptions about who committed the crime, as well as where, when, why, and how it took place.





BIBLIOGRAPHICAL REFERENCES

- <http://www.forensicsciencesimplified.org/csi/how.html>
- Forensic science and law fingerprints. (2016). Retrieved 2021, from <https://fslweb.files.wordpress.com/2016/08/fingerprints-1.jpg?w=676>
- Forensic sciences simplified. (2013). Retrieved 2021, from <http://www.forensicsciencesimplified.org/csi/how.html>
- Evidence & Investigation. (n.d.). Retrieved 2021, from <https://kerrscience6.webs.com/evidence-investigation#:~:text=Fingerprint%20Categories&text=Loop%20patterns%20have%20ridges%20that,Whorls%20have%20TWO%20deltas>.
- Fingerprint analysis. (2013). Retrieved 2021, from <http://www.forensicsciencesimplified.org/prints/how.html>
- Dna evidence. (2013). Retrieved 2021, from <http://www.forensicsciencesimplified.org/dna/how.html>
- Footwear & TIRE Track examination. (2013). Retrieved 2021, from <http://www.forensicsciencesimplified.org/fwtt/how.html>
- Study.com. (n.d.). Retrieved 2021, from <https://study.com/academy/lesson/bias-lesson-for-kids-definition-examples.html>
- Bias. (n.d.). Retrieved 2021, from <https://wiki.kidzsearch.com/wiki/Bias#:~:text=Bias%20means%20that%20a%20person.political%20beliefs%20as%20that%20party>.

THANKS

CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik.

Please keep this slide for attribution.



RESOURCES

VECTORS

- Thumb fingerprint
- Pharmacists
- Police scene icons
- Police line vector
- Prints graphic
- Medical healthcare infographic
- Chemistry research
- Flat body skeleton
- Emergency survival kit flat design
- Tire tracks
- Modern cctv sign collection flat

PHOTOS

- Tubes laboratory
- X-ray human head

ICONS

- Crime investigation

