

Use the word banks to help you complete this worksheet as you watch the video.

1. The science of _____ analyzes clues to reconstruct past events.

2. One of the most important types of _____ is found at the tips of our fingers. _____ began over a century ago when scientists discovered that no two people have the same print.

3. Fingerprints are analyzed based on three patterns: _____, _____, and _____

4. Experts distinguish any two prints by looking for tiny imperfections, such as _____ that end abruptly or ridges that split and form little _____.

5. The traditional method for recovering a print uses _____ and tape. The human touch leaves behind traces of _____ that the powder adheres to and is lifted by the tape. Today some investigators use _____ powder and a high intensity laser light to reveal fingerprints.

6. A carpet _____ may offer valuable clues by linking suspects to specific locations, such as a crime scene.

7. Investigators can make a mold of a _____ that to help them determine what type of tire it was and trace it to a suspect's vehicle.

8. Every cell in the human body contains DNA, which carries _____ information, and looks like a twisted ladder with a series of rungs. People usually leave behind some of their _____ at a crime scene and forensics scientists can gather and analyze DNA evidence. The DNA evidence may _____ a suspect to a crime or _____ that suspect altogether.

9. The FBI considers _____ to be its most valuable tool. Samples are stored in _____, which is a computer database that stores DNA information on suspects.

Word Bank #1

- Arch
- Black Powder
- Cells
- CODIS
- DNA
- Dots
- Evidence
- Exclude
- Fiber
- Fingerprinting
- Fluorescent
- Forensics
- Genetic
- Link
- Loop
- Ridges
- Sweat
- Tire Track
- Whorl

10. Scientists can examine a painting to determine if it is real or a _____
Paint can be examined using a _____ to see if the pigments are
from the correct time period. Brush _____ and details in the picture can
also be examined.

11. _____ provide us with valuable insight into long lost cultures.
People in ancient cultures often honored their dead through mummification by
_____ the body, or treating it with preservatives. Scientists
study the remains by examining human _____ to determine the age,
sex, and diet of the person and even how that person died.

12. Investigators can sift through the ashes to determine if the _____ was an accident or crime.
When someone sets a fire intentionally, it is called _____ and is often meant to destroy evidence
of another crime. Gas _____ can be used to determine what type of accelerant was
used. Experts can pull fingerprints from the soot and water, since the fire's _____ actually
makes prints stick to many surfaces. Pieces of _____ can reveal if someone broke in before
the fire or if the heat broke the glass.

Word Bank #2

Arson
Bones
Chromatography
Embalming
Fire
Forgery
Glass
Intensity
Microscope
Mummies
Strokes