“Modern Marvels: the FBI’s Crime Lab”

Possible Words Bank

- accredited
- accurate
- art
- Bertillon
- bullets
- chromatic
- DNA
- energetic
- fingerprint
- firearms
- first
- fool
- grooves
- highest
- human
- index
- largest
- mitochondrial
- polygraph
- Quantico
- secure
- testing
- training
- unique
- working
- second
- 80
- 600
- 1200
- Anthrology
- Serology

FBI Crime Lab

1. The FBI crime lab is located in ________________, Virginia.
2. According to the FBI Lab Director the most important quality of the lab is to ensure that the evidence is ________________ and contamination free.
3. Forensic science is the ________________ of finding whatever is left at a crime scene, developing it in such a way that it can be used to associate it to the person(s) at the scene...because you can’t ________________ science.
4. The nation’s ________________ crime lab was at Northwestern University. In 1802 the first FBI crime lab was opened.
5. In 1936 the FBI crime lab was among the first labs to test the ________________.
6. The FBI created a unit of serology. Through chemical test it could test for ________________ blood types.
7. In the mid 1970’s the crime lab became a crime fighting tool. It began to realize that physical evidence is far more ________________ than any eyewitness description.
8. The FBI was finally ________________ in 1997 when a larger lab was built in Virginia.

Firearms & Tool Marks Unit

9. The firearms & tool marks unit examines ________________, bullets, cartridges, and other items.
10. When matching a bullet to a gun, examiners examine ________________ of the gun. The grooves enable the identification with great precision. Every gun will leave its own ________________ microscopic mark.
11. The FBI has the largest ________________ firearm forensic collection in the USA.

**Explosive Unit**

12. The basic component of a bomb is to have some type of ________________ material which provides the explosive force.
13. The ________________ case tackled by the FBI explosive unit was the crash of Pan-Am 103 Scotland in 1988.
14. The explosive unit is more important than ever because of ________________.

**Personal Identification Unit**

15. In the 19th Century the ________________ system was being used as an identification system until the William West case proved it to be flawed.
16. In 1924 the first fingerprint files were created. In 1953 fingerprints were discovered at most crimes scene and it started being used to support criminal matters. Today there are ________________ processes to develop latent prints from cyanoacrylate fuming to alternate light sources.

**DNA - Deoxyribonucleic Acid**

17. DNA is the biological equivalent to a person’s ________________.
18. In the 1980’s the FBI developed ________________ technology to solve crimes.
19. There are two types of DNA testing used at the FBI; nucleus and ________________.
20. The National DNA ________________ system comprised of 170 crime labs sharing DNA information.

**Chemistry & Trace Evidence Unit**

21. The FBI relies on three forms of instrumentation: spectrophotometry, ________________ instruments, and mass spectrometry.
22. The Hazardous Materials Response Unit is the ________________ response unit used.
23. The bomb data center provides ________________ to all public safety agencies.