**FBI CRIME LAB**

The History Channel

FBI Crime Lab

Use this word bank to fill in the blanks

1. TheFBIcrimelabislocatedin\_\_\_\_\_\_\_\_,Virginia.
2. AccordingtotheFBILabDirectorthemostimportantqualityofthelabisto ensure that the evidence is \_\_\_\_\_\_\_\_\_ and contamination free.

Serology bullets DNA training Bertillon human Quantico secure polygraph fingerprint art first terrorism fool
80 firearms energetic accurate accredited highest largest working chromatic grooves unique index mitochon- drial

1. Forensicscienceisthe\_\_\_\_\_offindingwhateverisleftatacrimescene, developing it in such a way that it can be used to associate it to the person(s) at the scene...because you canʼt \_\_\_\_\_\_\_\_ science.
2. The nationʼs \_\_\_\_\_\_ crime lab was at Northwestern University. In 1802 the first FBI crime lab was opened.
3. In1936theFBIcrimelabwasamongthefirstlabstotestthe\_\_\_\_\_\_\_\_\_\_\_.
4. The FBI created a unit of serology. Through chemical test it could test for \_\_\_\_\_\_ blood types.
5. In the mid 1970ʼs the crime lab became a crime fighting tool. It began to realize that physical evidence is far more \_\_\_\_\_\_\_\_\_ than any eyewitness description.
6. TheFBIwasfinally\_\_\_\_\_\_\_\_\_\_\_\_in1997whenalargerlabwasbuiltinVirginia.

Firearms & Tool Marks Unit
9. Thefirearms&toolmarksunitexamines\_\_\_\_\_\_\_\_,bullets,cartridges,andother

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 \_\_\_\_\_\_\_\_\_\_\_\_\_.

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Personal Identification Unit

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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 personʼs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

18.In the 1980ʼs 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.

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**ANSWER KEY**

1. TheFBIcrimelabislocatedin**Quantico**,Virginia.
2. AccordingtotheFBILabDirectorthemostimportantqualityofthelabisto

ensure that the evidence is secure and contamination free.

1. Forensicscienceisthe**art**offindingwhateverisleftatacrimescene,developing it in such a way that it can be used to associate it to the person(s) at the scene...because you canʼt **fool** science.
2. The nationʼs **first** crime lab was at Northwestern University. In 1802 the first FBI crime lab was opened.
3. In1936theFBIcrimelabwasamongthefirstlabstotestthe**polygraph**.
4. The FBI created a unit of serology. Through chemical test it could test for

**human** blood types.

1. In the mid 1970ʼs the crime lab became a crime fighting tool. It began to realize

that physical evidence is far more **accurate** than any eyewitness description.

1. TheFBIwasfinally**accredited**in1997whenalargerlabwasbuiltinVirginia.

Firearms & Tool Marks Unit
9. Thefirearms&toolmarksunitexamines**firearms**,bullets,cartridges,andother

items.

10.When matching a bullet to a gun, examiners examine **grooves** of the gun. The grooves enable the indetification with great precision. Every gun will leave its own **unique** microscopic mark.

11.The FBI has the largest **working** firearm forensic collection in the USA.

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Explosive Unit

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**ANSWER KEY**

12.The basic component of a bomb is to have some type of **energetic** material which provides the explosive force.

13.The **largest** 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 **terrorism**.

Personal Identification Unit
15.In the 19th Century the **Bertillon** 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 **80** processes to develop latent prints from cyanoacrylate fuming to alternate light sources.

DNA - Deoxyribonucleic Acid
17.DNA is the biological equivalent to a personʼs **fingerprint**.

18.In the 1980ʼs the FBI developed **DNA** technology to solve crimes.

19.There are two types of DNA testing used at the FB; nucleus and **mitochondrial**.

20. The National DNA **index** system comprised of 170 crime labs sharing DNA information.

Chemistry & Trace Evidence Unit
21.The FBI relies on three forms of instrumentation: spectrophotometry, **chromatic**

instruments, and mass spectrometry.
22.The Hazardous Materials Response Unit is the **highest** response unit used. 23.The bomb data center provides **training** to all public safety agencies.

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