

Name: \_\_\_\_\_

## **FirearmsID Webquest**

The webquest portion of this activity is due on test day as part of the Unit Packet.

Go to: [www.firearmsid.com](http://www.firearmsid.com) Answer all of the following questions as you work through this website.

Under the "Main Menu", go to "Firearms Identification" and selected "Introduction".

1. Define firearms identification: \_\_\_\_\_

\_\_\_\_\_

2. What is firearm identification a form of? \_\_\_\_\_

3. What type of evidence can be submitted to a lab's Firearms Sections? \_\_\_\_\_

\_\_\_\_\_

Hit the "Next" button at the bottom of the page. This should send you to the "Fundamentals of Firearms ID" page.

4. Are two firearms the same? \_\_\_\_\_ 5. Do firearms change over time? \_\_\_\_\_

6. What percentage of firearms produce a "mechanical fingerprint"? \_\_\_\_\_

7. What class characteristics apply to bullets fired from firearms? \_\_\_\_\_

8. What class characteristics can be found on cartridges and cartridge cases? \_\_\_\_\_

\_\_\_\_\_

9. How does the AFTE define individual characteristics? \_\_\_\_\_

\_\_\_\_\_

Hit the "Next" button at the bottom of the page. This should send you to the "Bullet Identification" page.

10. When a bullet is collected for comparison purposes, what is the bullet examined for? \_\_\_\_\_

\_\_\_\_\_

11. What are the bullets fired into a water tank called? \_\_\_\_\_

12. Why are bullets fired into a water tank? \_\_\_\_\_

\_\_\_\_\_

13. What size are the water tanks used to fire bullets? \_\_\_\_\_

14. To compare marks on bullets, what piece of lab equipment is used? \_\_\_\_\_

15. What magnifications are used in firearms identification? \_\_\_\_\_

16. What are the three different results that can be reached from firearms comparisons? Explain how you would reach each result.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

17. If a firearm is not recovered, what can firearm examiners use to determine what brands of firearms the bullet was fired from? \_\_\_\_\_

On the left hand side of the page, click on "Caliber"

18. Define caliber: \_\_\_\_\_

19. Define cartridge: \_\_\_\_\_

20. What is a cartridge designation? \_\_\_\_\_

21. What names do we use to differentiate between different cartridge lengths? \_\_\_\_\_

On the left hand side of the page, click on "Bullet Basics"

22. Give a brief history of bullet materials:

23. What is the most common material in non-jacketed bullets? \_\_\_\_\_

24. List six types of non-jacketed bullets \_\_\_\_\_

25. What is the most common bullet jacket material? \_\_\_\_\_

26. What is the most common jacket bullet core? \_\_\_\_\_

Click the "Next" button. This should take you to a page called "Bullet Basics 2- Shapes"

27. What are the two most common bullet shapes? \_\_\_\_\_

28. What are solid nose bullets used for? Why? \_\_\_\_\_

29. Why is creating an expanding point important? \_\_\_\_\_

On the left hand side of the screen, click on "Rifling"

30. Define rifling: \_\_\_\_\_

31. List and describe the three basic machine processes used to rifle barrels

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

32. Describe electrochemical riflings. \_\_\_\_\_

Hit the "Next" button at the bottom of the page. This should send you to the "Rifling Impressions" page

33. Define bore diameter \_\_\_\_\_

34. Define rate of twist \_\_\_\_\_

35. Define pitch \_\_\_\_\_

Hit the "Next" button at the bottom of the page. This should send you to the "General Rifling Characteristics" page

36. Define GRC \_\_\_\_\_

Hit the "Next" button at the bottom of the page. This should send you to the "Cartridge Case Identification" page.

37. What are the two basic forms of tool marks on cartridge cases? Describe each.

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

38. What are the four different results that can be reached from cartridge case comparisons? Explain how you would reach each result.

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hit the "Next" button at the bottom of the page. This should send you to the "Striated Action Marks" page.

39. What are chamber marks? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

40. What are shear marks? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

41. What are firing pin drag marks? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

42. What are extractor marks? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

43. What are ejector marks? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hit the "Next" button at the bottom of the page. This send you to the "Impressed Action Marks" page

44. What are the two most common impression action marks? \_\_\_\_\_  
\_\_\_\_\_

45. What are firing pin impressions? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

46. What are breech marks? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### **FirearmsID Lab- Due 3/13**

Click on "Home" on the left side of the screen. On the menu on the left side of the screen, go to "Classroom" and select "Student Login" **This part will be a LAB GRADE worth 60 points!** Each activity (9 total) will give you a percent correct. The percentage equals points (ex: 50% = 5 pts, 100%= 10 pts). This means, you can earn up to 30 bonus points!

Log-in Key:

**1<sup>st</sup> Period:** C421604N6-1-1920

**2<sup>nd</sup> Period:** C421604N6-2-1920

You must enter your real full name (last, first). The system will be sending me the results of the activities you do. If you do not use your real name, you will not be receiving credit for the assignments you do.

Hit "Accept"

Click on "BID-VCM" on the left side of the screen

Scroll Down to the "Tutorial" on this page. Read all the instructions given to you in the tutorial. If you do not read the instructions you will not be able to successfully complete this activity.

Once you have read the "Tutorial", complete each of the 4 Tests on the right side of the screen. You must complete all 5 tests. They start easy and get more difficult, so do them in order. The computer will send the results of each test to me.

Click on "CCID-VCM" on the left side of the screen.

Scroll Down to the "Tutorial" on this page. Read all the instructions given to you in the tutorial. If you do not read the instructions you will not be able to successfully complete this activity.

Once you have read the "Tutorial", complete each of the 5 Tests on the right side of the screen. You must complete all 5 tests. They start easy and get more difficult, so do them in order. The computer will send the results of each test to me.

**Note: I recommend you check with me at the end of every class period to confirm I have received your scores. I also recommend you take time stamped photos of your highest score for each test. That way if there is any dispute you will have evidence.**