###### OE Forensics Ms. Scholle

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| Achieving Excellence Together In Forensics |

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Date:**

**Lesson:** What Are The Concepts Involved in Internal Ballistics?

**Objectives:**

Describe rifling on a gun barrel and explain how it marks a bullet

Explain barrel size and caliber

Describe how bullets are test fired and matched

Discuss the role of ballistics recovery and examination at a crime scene

Determine the position of the shooter based on bullet trajectory

**Vocabulary:**  5 Credit points will be added to your unit quiz if you define the following:

**Ballistics** **Barrel** **Breech** **Bullet** **Caliber** **Cartridge**

**Firearm** **Fully automatic** **Gunshot residue** **Lands**

**Muzzle** **Pistol** **Rifle** **Rifling** **Semiautomatic**

**Shell casing** **trajectory**

**Anticipatory Set:** Use the previous lesson to answer the questions below:

1. Define Forensic Ballistics
2. Define Internal Ballistics
3. Describe the difference between long guns and hand guns.
4. Name the major parts of a cartridge
5. What is caliber?

**Lesson Agenda:**

1. Anticipatory Set
2. Power Point Presentation: Ballistics {Slides 28-54}
3. Forensic File Video: Season 1 Episode 7: Broken Promises {Last 10 minutes}
4. Summary

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| **Unit: FORENSIC BALLISTICS** | **Name:** |
| **Date:** |
| **Lesson:** What are The Concepts Involved in Internal Ballistics? | **Period:** |

**ESSENTIAL QUESTION:**

What are the investigative tools that forensic scientists to analyze Firearms?

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| **Questions/Vocabulary/** | **Notes / Answers / Definitions / Examples/Equations** |
| What makes fired bullets unique? |  |
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| Discuss the procedure for matching |  |
| Striation marks. |  |
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| Discuss how GSR can be used in the court of law. |  |
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| What is the NIBIS, Drugfire and NIBN? |  |
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| How does a Firearm Work? |  |
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| Discuss how external ballistics be used to |  |
| Find the location of a shooter. Provide a |  |
| Sketch. |  |
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| List and discuss 4 types of bullet wounds. |  |
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| **Summary: Use the information you have learned and write a complete summary for this lesson** | |
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