

**RIDGECROFT SCHOOL  
FORENSICS SCIENCE**

Forensic Science is an elective science course for upper school students. Forensic Science is the application of knowledge and technology of science to the definition and enforcement of criminal and civil laws of society.

**PACING GUIDE**

TOPICS/CONCEPTS	TIME	CURRICULUM OBJECTIVES	RESOURCE(S): FORENSIC SCIENCE (Pearson Prentice Hall, Richard Saferstein, 2998)  TEXTBOOK: Chapter 19 Careers in Forensic Science will be integrated throughout the year.
<b>FIRST GRADING PERIOD</b>	<b>30 Days</b>		
INTRODUCTION TO FORENSICS	10	GOAL 1	<b>TEXTBOOK:</b> Chapter 1
THE CRIME SCENE	10	GOAL 2	<b>TEXTBOOK:</b> Chapter 2
PHYSICAL EVIDENCE	10	GOAL 3	<b>TEXTBOOK:</b> Chapter 3
<b>SECOND GRADING PERIOD</b>	<b>30 Days</b>		
PROPERTIES OF MATTER AND THE ANALYSIS OF GLASS	10	GOAL 4	<b>TEXTBOOK:</b> Chapter 4
DRUGS	10	GOAL 5	<b>TEXTBOOK:</b> Chapter 5
FORENSIC TOXICOLOGY	10	GOAL 6	<b>TEXTBOOK:</b> Chapter 6
<b>THIRD GRADING PERIOD</b>	<b>30 Days</b>		
THE MICROSCOPE	9	GOAL 7	<b>TEXTBOOK:</b> Chapter 7
FORENSIC SEROLOGY	9	GOAL 8	<b>TEXTBOOK:</b> Chapter 8
DNA. THE INDISPENSABLE FORENSIC SCIENCE TOOL	10	GOAL 9	<b>TEXTBOOK:</b> Chapter 9
<b>REVIEW AND ASSESSMENT</b>	2		
<b>FOURTH GRADING PERIOD</b>	<b>30 Days</b>		
TRACE EVIDENCE I: HAIRS AND FIBERS	10	GOAL 10	<b>TEXTBOOK:</b> Chapter 10
TRACE EVIDENCE II: METALS, PAINT, AND SOIL	10	GOAL 11	<b>TEXTBOOK:</b> Chapter 11
FORENSIC ASPECTS OF FIRE INVESTIGATION	10	GOAL 12	<b>TEXTBOOK:</b> Chapter 12
<b>FIFTH GRADING PERIOD</b>	<b>30 Days</b>		
FORENSIC INVESTIGATION OF EXPLOSIONS	10	GOAL 13	<b>TEXTBOOK:</b> Chapter 13
FINGERPRINTS	10	GOAL 14	<b>TEXTBOOK:</b> Chapter 14
FIREARMS, TOOL MARKS, AND OTHER IMPRESSIONS	10	GOAL 15	<b>TEXTBOOK:</b> Chapter 15
<b>SIXTH GRADING PERIOD</b>	<b>30 Days</b>		

DOCUMENT EXAMINATION	10	GOAL 16	<b>TEXTBOOK:</b> Chapter 16
COMPUTER FORENSICS	9	GOAL 17	<b>TEXTBOOK:</b> Chapter 17
FORENSIC SCIENCE AND THE INTERNET	9	GOAL 18	<b>TEXTBOOK:</b> Chapter 18
<b>REVIEW AND ASSESSMENT</b>	2		

8/1/08

**THE GOALS OF THE FORENSIC SCIENCE COURSE ARE:**

<p><b>GOAL 1: INTRODUCTION TO FORENSICS</b> The student will be able to define forensic science and describe the services of a typical crime lab.</p>
<p><b>GOAL 2: THE CRIME SCENE</b> The student will be able to define physical evidence and the proper techniques to record a crime scene and package evidence.</p>
<p><b>GOAL 3: PHYSICAL EVIDENCE</b> The student will understand common types of physical evidences and the function of national databases.</p>
<p><b>GOAL 4: PROPERTIES OF MATTER AND THE ANALYSIS OF GLASS</b> The student will be able to distinguish between physical and chemical properties of matter and distinguish elements of</p>
<p><b>GOAL 5: DRUGS</b> The student will understand the difference between psychological and physical dependence and understand tests for drug identification.</p>
<p><b>GOAL 6: FORENSIC TOXICOLOGY</b> The student will understand the effect of alcohol on the body and the tests used to determine impairment.</p>
<p><b>GOAL 7:THE MICROSCOPE</b> The student will understand the use and application of the microscope.</p>
<p><b>GOAL 8: FORENSIC SEROLOGY</b> The student will understand the types of blood and the forensic tests for blood, and other body fluids.</p>
<p><b>GOAL 9: DNA: THE INDISPENSABLE FORENSIC SCIENCE TOOL</b> The student will understand DNA and applications to criminal investigation.</p>
<p><b>GOAL 10: TRACE EVIDENCE I: HAIRS AND FIBERS</b> The student will understand the distinctions of human and animal hairs and natural and manufactured fibers.</p>
<p><b>GOAL 11: TRACE EVIDENCE II: METALS, PAINT, AND SOIL</b> The student will understand the usefulness of trace elements for forensic comparison of various types of physical evidence.</p>
<p><b>GOAL 12: FORENSIC ASPECTS OF FIRE INVESTIGATION</b> The student will be able to identify signs of an accelerant-initiated fire.</p>
<p><b>GOAL 13: FORENSIC INVESTIGATION OF EXPLOSIONS</b> The student will be able to classify explosives and how to detect and identify residues.</p>
<p><b>GOAL 14: FINGERPRINTS</b> The student will be able to identify major fingerprint patterns and understand the use of an automated fingerprint identification system.</p>
<p><b>GOAL 15: FOREARMS, TOOL MARKS, AND OTHER IMPRESSIONS</b> The student will be able to recognize the class and characteristics of bullets and cartridge cases and the concept of use of a database.</p>
<p><b>GOAL 16: DOCUMENT EXAMINATION</b> The student will be able to analyze common characteristics associated with handwriting and printers</p>
<p><b>GOAL 17: COMPUTER FORENSICS</b> The student will understand the procedure for preserving computer evidence at a crime scene.</p>
<p><b>GOAL 18: FORENSIC SCIENCE AND THE INTERNET</b> The student will learn how to retrieve information about forensic science on the Internet.</p>
<p><b>GOAL 19: CAREERS IN FORENSIC SCIENCE</b> The student will investigate and become familiar with careers associated with forensic science.</p>