



<http://www.MurderAtOldFields.com>

How "Murder at Old Fields" is aligned with Massachusetts Curriculum Standards					
<b>Science</b>					
<b>Grade 9</b>					
<b>FOCUS / COURSE</b>				<b>MA.B.</b>	<b>BIOLOGY</b>
<b>STRAND</b>				<b>B.SIS.</b>	Scientific Inquiry Skills Standards
<b>STANDARD / CONCEPT / SKILL</b>				<b>B.SIS4.</b>	Communicate and apply the results of scientific investigations.
			<b>INDICATOR</b>	<b>B.SIS4.2.</b>	Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
<b>FOCUS / COURSE</b>				<b>MA.C.</b>	<b>CHEMISTRY</b>
<b>STRAND</b>				<b>C.SIS.</b>	Scientific Inquiry Skills Standards
<b>STANDARD / CONCEPT / SKILL</b>				<b>C.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
			<b>INDICATOR</b>	<b>C.SIS1.1.</b>	Observe the world from a scientific perspective.
<b>STANDARD / CONCEPT / SKILL</b>				<b>C.SIS2.</b>	Design and conduct scientific investigations.
			<b>INDICATOR</b>	<b>C.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>EXPECTATION</b>	<b>C.SIS2.5.a.</b>	Making observations
			<b>EXPECTATION</b>	<b>C.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>EXPECTATION</b>	<b>C.SIS2.5.c.</b>	Collecting data or evidence in an organized way
			<b>INDICATOR</b>	<b>C.SIS2.7.</b>	Follow safety guidelines.
<b>STANDARD / CONCEPT / SKILL</b>				<b>C.SIS3.</b>	Analyze and interpret results of scientific investigations.
			<b>INDICATOR</b>	<b>C.SIS3.3.</b>	Use appropriate technology and other tools.
<b>FOCUS / COURSE</b>				<b>MA.P.</b>	<b>PHYSICS</b>
<b>STRAND</b>				<b>P.SIS.</b>	Scientific Inquiry Skills Standards
<b>STANDARD / CONCEPT / SKILL</b>				<b>P.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
			<b>INDICATOR</b>	<b>P.SIS1.1.</b>	Observe the world from a scientific perspective.
<b>STANDARD / CONCEPT / SKILL</b>				<b>P.SIS2.</b>	Design and conduct scientific investigations.



<http://www.MurderAtOldFields.com>

			<b>INDICATOR</b>	<b>P.SIS2.2.</b>	Select required materials, equipment, and conditions for conducting an experiment.
			<b>INDICATOR</b>	<b>P.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>EXPECTATION</b>	<b>P.SIS2.5.a.</b>	Making observations
			<b>EXPECTATION</b>	<b>P.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>EXPECTATION</b>	<b>P.SIS2.5.c.</b>	Collecting data or evidence in an organized way
		<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS3.</b>	Analyze and interpret results of scientific investigations.
			<b>INDICATOR</b>	<b>P.SIS3.3.</b>	Use appropriate technology and other tools.
			<b>INDICATOR</b>	<b>P.SIS3.5.</b>	Assess the reliability of data and identify reasons for inconsistent results, such as sources of error or uncontrolled conditions.
			<b>INDICATOR</b>	<b>P.SIS3.6.</b>	Use results of an experiment to develop a conclusion to an investigation that addresses the initial questions and supports or refutes the stated hypothesis.
		<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS4.</b>	Communicate and apply the results of scientific investigations.
			<b>INDICATOR</b>	<b>P.SIS4.1.</b>	Develop descriptions of and explanations for scientific concepts that were a focus of one or more investigations.
			<b>INDICATOR</b>	<b>P.SIS4.2.</b>	Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
<b>FOCUS / COURSE</b>				<b>MA.CC.RST. 9-10.</b>	<b>Reading Standards for Literacy in Science and Technical Subjects</b>
		<b>STRAND</b>			Integration of Knowledge and Ideas
<b>FOCUS / COURSE</b>				<b>MA.CC.WHS T.9-10.</b>	<b>Writing Standards for Literacy in Science and Technical Subjects</b>
		<b>STRAND</b>			Text Types and Purposes
		<b>STANDARD / CONCEPT / SKILL</b>		<b>WHST.9-10.2.</b>	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
			<b>INDICATOR</b>	<b>WHST.9-10.2(f)</b>	Provide a concluding statement or section that follows from and supports the information or explanation presented (e.g., articulating implications or the significance of the topic).



<http://www.MurderAtOldFields.com>

	<b>STRAND</b>			Production and Distribution of Writing
	<b>STANDARD / CONCEPT / SKILL</b>		<b>WHST.9-10.6.</b>	Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.
<b>Grade 10</b>				
<b>Science</b>				
<b>FOCUS / COURSE</b>			<b>MA.B.</b>	<b>BIOLOGY</b>
	<b>STRAND</b>		<b>B.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>		<b>B.SIS4.</b>	Communicate and apply the results of scientific investigations.
		<b>INDICATOR</b>	<b>B.SIS4.2.</b>	Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
<b>FOCUS / COURSE</b>			<b>MA.C.</b>	<b>CHEMISTRY</b>
	<b>STRAND</b>		<b>C.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
		<b>INDICATOR</b>	<b>C.SIS1.1.</b>	Observe the world from a scientific perspective.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS2.</b>	Design and conduct scientific investigations.
		<b>INDICATOR</b>	<b>C.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>C.SIS2.5.a.</b>	Making observations
			<b>C.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>C.SIS2.5.c.</b>	Collecting data or evidence in an organized way
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS3.</b>	Analyze and interpret results of scientific investigations.
		<b>INDICATOR</b>	<b>C.SIS3.3.</b>	Use appropriate technology and other tools.
<b>FOCUS / COURSE</b>			<b>MA.P.</b>	<b>PHYSICS</b>
	<b>STRAND</b>		<b>P.SIS.</b>	Scientific Inquiry Skills Standards



<http://www.MurderAtOldFields.com>

		<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
			<b>INDICATOR</b>	<b>P.SIS1.1.</b>	Observe the world from a scientific perspective.
		<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS2.</b>	Design and conduct scientific investigations.
			<b>INDICATOR</b>	<b>P.SIS2.2.</b>	Select required materials, equipment, and conditions for conducting an experiment.
			<b>INDICATOR</b>	<b>P.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>EXPECTATION</b>	<b>P.SIS2.5.a.</b>	Making observations
			<b>EXPECTATION</b>	<b>P.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>EXPECTATION</b>	<b>P.SIS2.5.c.</b>	Collecting data or evidence in an organized way
		<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS3.</b>	Analyze and interpret results of scientific investigations.
			<b>INDICATOR</b>	<b>P.SIS3.3.</b>	Use appropriate technology and other tools.
			<b>INDICATOR</b>	<b>P.SIS3.5.</b>	Assess the reliability of data and identify reasons for inconsistent results, such as sources of error or uncontrolled conditions.
			<b>INDICATOR</b>	<b>P.SIS3.6.</b>	Use results of an experiment to develop a conclusion to an investigation that addresses the initial questions and supports or refutes the stated hypothesis.
		<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS4.</b>	Communicate and apply the results of scientific investigations.
			<b>INDICATOR</b>	<b>P.SIS4.1.</b>	Develop descriptions of and explanations for scientific concepts that were a focus of one or more investigations.
			<b>INDICATOR</b>	<b>P.SIS4.2.</b>	Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
			<b>INDICATOR</b>	<b>P.SIS4.3.</b>	Explain diagrams and charts that represent relationships of variables.

	<b>STANDARD / CONCEPT / SKILL</b>	<b>RST.9-10.7.</b>	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.
	<b>FOCUS / COURSE</b>	<b>MA.CC.WHST.9-10.</b>	<b>Writing Standards for Literacy in Science and Technical Subjects</b>
	<b>STRAND</b>		Text Types and Purposes
	<b>STANDARD / CONCEPT / SKILL</b>	<b>WHST.9-10.2.</b>	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
		<b>INDICATOR</b>	<b>WHST.9-10.2(f)</b> Provide a concluding statement or section that follows from and supports the information or explanation presented (e.g., articulating implications or the significance of the topic).
	<b>STRAND</b>		Production and Distribution of Writing
	<b>STANDARD / CONCEPT / SKILL</b>	<b>WHST.9-10.6.</b>	Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.
<b>Grade 11</b>			
	<b>Science</b>		
	<b>FOCUS / COURSE</b>	<b>MA.B.</b>	<b>BIOLOGY</b>
	<b>STRAND</b>	<b>B.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>	<b>B.SIS4.</b>	Communicate and apply the results of scientific investigations.
		<b>INDICATOR</b>	<b>B.SIS4.2.</b> Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
	<b>FOCUS / COURSE</b>	<b>MA.C.</b>	<b>CHEMISTRY</b>



<http://www.MurderAtOldFields.com>

	<b>STRAND</b>		<b>C.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
		<b>INDICATOR</b>	<b>C.SIS1.1.</b>	Observe the world from a scientific perspective.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS2.</b>	Design and conduct scientific investigations.
		<b>INDICATOR</b>	<b>C.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>C.SIS2.5.a.</b>	Making observations
			<b>C.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>C.SIS2.5.c.</b>	Collecting data or evidence in an organized way
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS3.</b>	Analyze and interpret results of scientific investigations.
		<b>INDICATOR</b>	<b>C.SIS3.3.</b>	Use appropriate technology and other tools.
<b>FOCUS / COURSE</b>			<b>MA.P.</b>	<b>PHYSICS</b>
	<b>STRAND</b>		<b>P.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
		<b>INDICATOR</b>	<b>P.SIS1.1.</b>	Observe the world from a scientific perspective.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS2.</b>	Design and conduct scientific investigations.
		<b>INDICATOR</b>	<b>P.SIS2.2.</b>	Select required materials, equipment, and conditions for conducting an experiment.
		<b>INDICATOR</b>	<b>P.SIS2.4.</b>	Write procedures that are clear and replicable.
		<b>INDICATOR</b>	<b>P.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>P.SIS2.5.a.</b>	Making observations
			<b>P.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>P.SIS2.5.c.</b>	Collecting data or evidence in an organized way
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS3.</b>	Analyze and interpret results of scientific investigations.



<http://www.MurderAtOldFields.com>

		<b>INDICATOR</b>	<b>P.SIS3.1.</b>	Present relationships between and among variables in appropriate forms.
		<b>INDICATOR</b>	<b>P.SIS3.2.</b>	Represent data and relationships between and among variables in charts and graphs.
		<b>INDICATOR</b>	<b>P.SIS3.3.</b>	Use appropriate technology and other tools.
		<b>INDICATOR</b>	<b>P.SIS3.4.</b>	Use mathematical operations to analyze and interpret data results.
		<b>INDICATOR</b>	<b>P.SIS3.5.</b>	Assess the reliability of data and identify reasons for inconsistent results, such as sources of error or uncontrolled conditions.
		<b>INDICATOR</b>	<b>P.SIS3.6.</b>	Use results of an experiment to develop a conclusion to an investigation that addresses the initial questions and supports or refutes the stated hypothesis.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS4.</b>	Communicate and apply the results of scientific investigations.
		<b>INDICATOR</b>	<b>P.SIS4.1.</b>	Develop descriptions of and explanations for scientific concepts that were a focus of one or more investigations.
		<b>INDICATOR</b>	<b>P.SIS4.2.</b>	Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
		<b>INDICATOR</b>	<b>P.SIS4.3.</b>	Explain diagrams and charts that represent relationships of variables.
<b>FOCUS / COURSE</b>			<b>MA.CC.RST.11-12.</b>	<b>Reading Standards for Literacy in Science and Technical Subjects</b>
	<b>STRAND</b>			Integration of Knowledge and Ideas
	<b>STANDARD / CONCEPT / SKILL</b>		<b>RST.11-12.8.</b>	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.



<http://www.MurderAtOldFields.com>

	STANDARD / CONCEPT / SKILL	RST.11-12.9.	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.
FOCUS / COURSE		MA.CC.WHST.11-12.	<b>Writing Standards for Literacy in Science and Technical Subjects</b>
	STRAND		Text Types and Purposes
	STANDARD / CONCEPT / SKILL	WHST.11-12.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
		INDICATOR	WHST.11-12.2(e)
			Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the topic).
	STRAND		Production and Distribution of Writing
	STANDARD / CONCEPT / SKILL	WHST.11-12.6.	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.
<b>Grade 12</b>			
<b>Science</b>			
FOCUS / COURSE		MA.ES.	<b>EARTH AND SPACE SCIENCE</b>
	STRAND	ES.MS.	Mathematical Skills
	STANDARD / CONCEPT / SKILL	ES.MS2.	Solve simple algebraic expressions.
FOCUS / COURSE		MA.B.	<b>BIOLOGY</b>
	STRAND	B.SIS.	Scientific Inquiry Skills Standards
	STANDARD / CONCEPT / SKILL	B.SIS4.	Communicate and apply the results of scientific investigations.
		INDICATOR	B.SIS4.2.
			Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
FOCUS / COURSE		MA.C.	<b>CHEMISTRY</b>





<http://www.MurderAtOldFields.com>

	<b>STRAND</b>		<b>C.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
		<b>INDICATOR</b>	<b>C.SIS1.1.</b>	Observe the world from a scientific perspective.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS2.</b>	Design and conduct scientific investigations.
		<b>INDICATOR</b>	<b>C.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>C.SIS2.5.a.</b>	Making observations
			<b>C.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>C.SIS2.5.c.</b>	Collecting data or evidence in an organized way
	<b>STANDARD / CONCEPT / SKILL</b>		<b>C.SIS3.</b>	Analyze and interpret results of scientific investigations.
		<b>INDICATOR</b>	<b>C.SIS3.3.</b>	Use appropriate technology and other tools.
<b>FOCUS / COURSE</b>			<b>MA.P.</b>	<b>PHYSICS</b>
	<b>STRAND</b>		<b>P.SIS.</b>	Scientific Inquiry Skills Standards
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS1.</b>	Make observations, raise questions, and formulate hypotheses.
		<b>INDICATOR</b>	<b>P.SIS1.1.</b>	Observe the world from a scientific perspective.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS2.</b>	Design and conduct scientific investigations.
		<b>INDICATOR</b>	<b>P.SIS2.2.</b>	Select required materials, equipment, and conditions for conducting an experiment.
		<b>INDICATOR</b>	<b>P.SIS2.5.</b>	Employ appropriate methods for accurately and consistently
			<b>P.SIS2.5.a.</b>	Making observations
			<b>P.SIS2.5.b.</b>	Making and recording measurements at appropriate levels of precision
			<b>P.SIS2.5.c.</b>	Collecting data or evidence in an organized way
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS3.</b>	Analyze and interpret results of scientific investigations.
		<b>INDICATOR</b>	<b>P.SIS3.1.</b>	Present relationships between and among variables in appropriate forms.



<http://www.MurderAtOldFields.com>

		<b>INDICATOR</b>	<b>P.SIS3.2.</b>	Represent data and relationships between and among variables in charts and graphs.
		<b>INDICATOR</b>	<b>P.SIS3.3.</b>	Use appropriate technology and other tools.
		<b>INDICATOR</b>	<b>P.SIS3.5.</b>	Assess the reliability of data and identify reasons for inconsistent results, such as sources of error or uncontrolled conditions.
		<b>INDICATOR</b>	<b>P.SIS3.6.</b>	Use results of an experiment to develop a conclusion to an investigation that addresses the initial questions and supports or refutes the stated hypothesis.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>P.SIS4.</b>	Communicate and apply the results of scientific investigations.
		<b>INDICATOR</b>	<b>P.SIS4.1.</b>	Develop descriptions of and explanations for scientific concepts that were a focus of one or more investigations.
		<b>INDICATOR</b>	<b>P.SIS4.2.</b>	Review information, explain statistical analysis, and summarize data collected and analyzed as the result of an investigation.
	<b>STANDARD / CONCEPT / SKILL</b>		<b>T/E.MS12.</b>	Use appropriate metric/standard international (SI) units of measurement for mass (kg); length (m); time (s); power (W); electric current (A); electric potential difference/voltage (V); and electric resistance (R).
<b>FOCUS / COURSE</b>			<b>MA.CC.RST.11-12.</b>	<b>Reading Standards for Literacy in Science and Technical Subjects</b>
	<b>STRAND</b>			Integration of Knowledge and Ideas
	<b>STANDARD / CONCEPT / SKILL</b>		<b>RST.11-12.8.</b>	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.



<http://www.MurderAtOldFields.com>

		STANDARD / CONCEPT / SKILL	RST.11-12.9.	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.
	FOCUS / COURSE		MA.CC.WHST.11-12.	<b>Writing Standards for Literacy in Science and Technical Subjects</b>
		STRAND		Text Types and Purposes
		STANDARD / CONCEPT / SKILL	WHST.11-12.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
		INDICATOR	WHST.11-12.2(e)	Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the topic).
		STRAND		Production and Distribution of Writing
		STANDARD / CONCEPT / SKILL	WHST.11-12.6.	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.