

Main Criteria: National Theatre for Children

Secondary Criteria: North Carolina Standard Course of Study, Next Generation Science Standards (NGSS)

Subject: Science

Grades: 6, 7, 8

National Theatre for Children

How electricity is made

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Key Ideas and Details
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.2.	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure

ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Integration of Knowledge and Ideas
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Range of Reading and Level of Text Complexity
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Production and Distribution of Writing
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Key Ideas and Details
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.2.	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to

CLARIFYING OBJECTIVE		grades 6-8 texts and topics.
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Integration of Knowledge and Ideas
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Range of Reading and Level of Text Complexity
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Production and Distribution of Writing
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.8.P.	Physical Science
STRAND / ESSENTIAL STANDARD		Energy: Conservation and Transfer
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	8.P.2.	Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.
CLARIFYING OBJECTIVE	8.P.2.2.	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Key Ideas and Details
ESSENTIAL	6-	Determine the central ideas or conclusions of a text; provide an accurate summary of

STANDARD / CLARIFYING OBJECTIVE	8.RST.2.	the text distinct from prior knowledge or opinions.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Integration of Knowledge and Ideas
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Range of Reading and Level of Text Complexity
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Production and Distribution of Writing
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

How energy is used unwisely

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:

PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.6.E.	Earth Science
STRAND / ESSENTIAL STANDARD		Earth: Systems, Structures and Processes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6.E.2.	Understand the structure of the earth and how interactions of constructive and destructive forces have resulted in changes in the surface of the Earth over time and the effects of the lithosphere on humans.
CLARIFYING OBJECTIVE	6.E.2.4.	Conclude that the good health of humans requires: monitoring the lithosphere, maintaining soil quality and stewardship.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.

CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.8.P.	Physical Science
STRAND / ESSENTIAL STANDARD		Energy: Conservation and Transfer
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	8.P.2.	Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.
CLARIFYING OBJECTIVE	8.P.2.2.	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes

STANDARD		
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

How we use natural resources

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure

ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

The science of energy and technology

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes

ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

**North Carolina Standard Course of Study
Science**

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

**North Carolina Standard Course of Study
Science**

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

The science of natural resources

**Next Generation Science Standards (NGSS)
Science**

Grade 6 - Adopted: 2013

STRAND	NGSS.MS	EARTH AND SPACE SCIENCE
---------------	----------------	--------------------------------

	-ESS.	
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

**North Carolina Standard Course of Study
Science**

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

**North Carolina Standard Course of Study
Science**

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

The uses of electricity

**Next Generation Science Standards (NGSS)
Science**

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE	MS-	Construct an argument supported by evidence for how increases in human

EXPECTATION	ESS3-4.	population and per-capita consumption of natural resources impact Earth's systems.
-------------	---------	--

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Key Ideas and Details
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.2.	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Integration of Knowledge and Ideas
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Range of Reading and Level of Text Complexity
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Production and Distribution of Writing
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Key Ideas and Details
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.2.	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Integration of Knowledge and Ideas
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
CONTENT AREA	NC.CC.6-	Reading Standards for Literacy in Science and Technical Subjects

/ STRAND	8.RST.	
STRAND / ESSENTIAL STANDARD		Range of Reading and Level of Text Complexity
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Production and Distribution of Writing
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.8.P.	Physical Science
STRAND / ESSENTIAL STANDARD		Energy: Conservation and Transfer
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	8.P.2.	Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.
CLARIFYING OBJECTIVE	8.P.2.1.	Explain the environmental consequences of the various methods of obtaining, transforming and distributing energy.
CLARIFYING OBJECTIVE	8.P.2.2.	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Key Ideas and Details
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.2.	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
ESSENTIAL STANDARD /	6-8.RST.5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.

CLARIFYING OBJECTIVE		
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Integration of Knowledge and Ideas
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Range of Reading and Level of Text Complexity
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Production and Distribution of Writing
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

What YOU can do to conserve energy

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity

		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.6.E.	Earth Science
STRAND / ESSENTIAL STANDARD		Earth: Systems, Structures and Processes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6.E.2.	Understand the structure of the earth and how interactions of constructive and destructive forces have resulted in changes in the surface of the Earth over time and the effects of the lithosphere on humans.
CLARIFYING OBJECTIVE	6.E.2.4.	Conclude that the good health of humans requires: monitoring the lithosphere, maintaining soil quality and stewardship.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.7.E.	Earth Science
STRAND / ESSENTIAL STANDARD		Earth Systems, Structures and Processes

ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	7.E.1.	Understand how the cycling of matter (water and gases) in and out of the atmosphere relates to Earth's atmosphere, weather and climate and the effects of the atmosphere on humans.
CLARIFYING OBJECTIVE	7.E.1.6.	Conclude that the good health of humans requires: monitoring the atmosphere, maintaining air quality and stewardship.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.8.P.	Physical Science
STRAND / ESSENTIAL STANDARD		Energy: Conservation and Transfer
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	8.P.2.	Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.
CLARIFYING OBJECTIVE	8.P.2.1.	Explain the environmental consequences of the various methods of obtaining, transforming and distributing energy.
CLARIFYING OBJECTIVE	8.P.2.2.	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

What are energy and electricity

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.

CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

What are energy resources

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

North Carolina Standard Course of Study

Science

Grade 6 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
------------------------------	-----------------------	---

STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 7 - Adopted: 2010

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

North Carolina Standard Course of Study

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.8.P.	Physical Science
STRAND / ESSENTIAL STANDARD		Energy: Conservation and Transfer
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	8.P.2.	Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.
CLARIFYING OBJECTIVE	8.P.2.2.	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL	6-	Determine the meaning of symbols, key terms, and other domain-specific words and

STANDARD / CLARIFYING OBJECTIVE	8.RST.4.	phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

What is and how to be Energy Efficient

Next Generation Science Standards (NGSS)

Science

Grade 6 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 7 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

Next Generation Science Standards (NGSS)

Science

Grade 8 - Adopted: 2013

STRAND	NGSS.MS-ESS.	EARTH AND SPACE SCIENCE
TITLE	MS-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	MS-ESS3-1.	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
PERFORMANCE EXPECTATION	MS-ESS3-3.	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.

PERFORMANCE EXPECTATION	MS-ESS3-4.	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.
--------------------------------	-------------------	--

**North Carolina Standard Course of Study
Science
Grade 6 - Adopted: 2010**

CONTENT AREA / STRAND	NC.6.E.	Earth Science
STRAND / ESSENTIAL STANDARD		Earth: Systems, Structures and Processes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6.E.2.	Understand the structure of the earth and how interactions of constructive and destructive forces have resulted in changes in the surface of the Earth over time and the effects of the lithosphere on humans.
CLARIFYING OBJECTIVE	6.E.2.4.	Conclude that the good health of humans requires: monitoring the lithosphere, maintaining soil quality and stewardship.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

**North Carolina Standard Course of Study
Science
Grade 7 - Adopted: 2010**

CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.

Science

Grade 8 - Adopted: 2010

CONTENT AREA / STRAND	NC.8.P.	Physical Science
STRAND / ESSENTIAL STANDARD		Energy: Conservation and Transfer
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	8.P.2.	Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.
CLARIFYING OBJECTIVE	8.P.2.2.	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
CONTENT AREA / STRAND	NC.CC.6-8.RST.	Reading Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Craft and Structure
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.
CONTENT AREA / STRAND	NC.CC.6-8.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STRAND / ESSENTIAL STANDARD		Text Types and Purposes
ESSENTIAL STANDARD / CLARIFYING OBJECTIVE	6-8.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
CLARIFYING OBJECTIVE	6-8.WHST.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic.