Secondary Criteria: New York State Learning Standards and Core Curriculum, Next Generation Science Standards (NGSS)

Subject: Science Grades: K, 1, 2

National Theatre for Children

How electricity is made

New York State Learning Standards and Core Curriculum Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.2.	Observe the way one form of energy can be transferred into another form of energy present in common situations (e.g., mechanical to heat energy, mechanical to electrical energy, chemical to heat energy).
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum Science

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.2.	Observe the way one form of energy can be transferred into another form of energy present in common situations (e.g., mechanical to heat energy, mechanical to electrical energy, chemical to heat energy).
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

Science

Grade 2 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.2.	Observe the way one form of energy can be transferred into another form of energy present in common situations (e.g., mechanical to heat energy, mechanical to electrical energy, chemical to heat energy).
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

How energy is used unwisely

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.	
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.	
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action	

New York State Learning Standards and Core Curriculum

Science

Grade 1 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum

Science

STRAND /	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and
DOMAIN /		common themes that connect mathematics, science, and technology and apply the
UNIFYING		themes to these and other areas of learning.

THEME		
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

Next Generation Science Standards (NGSS)

Science

Grade K - Adopted: 2013

STRAND	NGSS.K- ESS.	EARTH AND SPACE SCIENCE
TITLE	K-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION		Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

How we use natural resources

New York State Learning Standards and Core Curriculum

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum

Science

Grade 1 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum

Science

STRAND / DOMAIN / UNIFYING THEME	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into

	phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

The science of energy and technology

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.1.	Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

Science

Grade 1 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.1.	Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

${\bf New\,York\,State\,Learning\,Standards\,and\,Core\,Curriculum}$

Science

STRAND / NY.P4. The Physical Setting: Students will understand and apply scientific concepts.	
---	--

DOMAIN / UNIFYING THEME		principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.1.	Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

The science of natural resources

New York State Learning Standards and Core Curriculum Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum Science

Grade 1 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum Science

STRAND / DOMAIN / UNIFYING THEME	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues

IDEA	of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

The uses of electricity

$\label{thm:conditional} \textbf{New York State Learning Standards and Core Curriculum}$

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.L4.	The Living Environment: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	L4.6:	Plants and animals depend on each other and their physical environment.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.6.2.	Describe the relationship of the Sun as an energy source for living and nonliving cycles.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.2.	Make informed consumer decisions by applying knowledge about the attributes of particular products and making cost/benefit trade-offs to arrive at an optimal choice

New York State Learning Standards and Core Curriculum

Science

STRAND / DOMAIN / UNIFYING THEME	NY.L4.	The Living Environment: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	L4.6:	Plants and animals depend on each other and their physical environment.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.6.2.	Describe the relationship of the Sun as an energy source for living and nonliving cycles.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action
STANDARD /	7.1.2.	Make informed consumer decisions by applying knowledge about the attributes of

CONCEPTUAL	particular products and making cost/benefit trade-offs to arrive at an optimal choice
UNDERSTANDIN	
G	

Science

Grade 2 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.L4.	The Living Environment: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	L4.6:	Plants and animals depend on each other and their physical environment.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.6.2.	Describe the relationship of the Sun as an energy source for living and nonliving cycles.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.2.	Make informed consumer decisions by applying knowledge about the attributes of particular products and making cost/benefit trade-offs to arrive at an optimal choice

Next Generation Science Standards (NGSS)

Science

Grade K - Adopted: 2013

STRAND	NGSS.K- PS.	PHYSICAL SCIENCE
TITLE	K-PS3.	Energy
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	K-PS3-1.	Make observations to determine the effect of sunlight on Earth's surface.
STRAND	NGSS.K- ESS.	EARTH AND SPACE SCIENCE
TITLE	K-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	K-ESS3- 3.	Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

What YOU can do to conserve energy

New York State Learning Standards and Core Curriculum Science

STRAND / DOMAIN / UNIFYING THEME		The Living Environment: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	L4.7:	Human decisions and activities have had a profound impact on the physical and living environments.
STANDARD /	4.7.1.	Identify ways in which humans have changed their environment and the effects of

CONCEPTUAL UNDERSTANDIN G		those changes.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.2.	Make informed consumer decisions by applying knowledge about the attributes of particular products and making cost/benefit trade-offs to arrive at an optimal choice

Science

Grade 1 - Adopted: 2005

NY.L4.	The Living Environment: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
L4.7:	Human decisions and activities have had a profound impact on the physical and living environments.
4.7.1.	Identify ways in which humans have changed their environment and the effects of those changes.
NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action
7.1.2.	Make informed consumer decisions by applying knowledge about the attributes of particular products and making cost/benefit trade-offs to arrive at an optimal choice
	L4.7: 4.7.1. NY.7. 7.1:

New York State Learning Standards and Core Curriculum

Science

	- · · · · · · · · · · · · · · · · · · ·		
STRAND / DOMAIN / UNIFYING THEME	NY.L4.	The Living Environment: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.	
CATEGORY / CLUSTER / KEY IDEA	L4.7:	Human decisions and activities have had a profound impact on the physical and living environments.	
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.7.1.	Identify ways in which humans have changed their environment and the effects of those changes.	
STRAND / DOMAIN / UNIFYING	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.	

THEME		
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.2.	Make informed consumer decisions by applying knowledge about the attributes of particular products and making cost/benefit trade-offs to arrive at an optimal choice

Next Generation Science Standards (NGSS)

Science

Grade K - Adopted: 2013

STRAND	NGSS.K- ESS.	EARTH AND SPACE SCIENCE
TITLE	K-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION		Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

What are energy and electricity

New York State Learning Standards and Core Curriculum

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.1.	Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum

Science

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL		Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy.

UNDERSTANDIN G		
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

Science

Grade 2 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.P4.	The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.
CATEGORY / CLUSTER / KEY IDEA	P4.4:	Energy exists in many forms, and when these forms change energy is conserved.
STANDARD / CONCEPTUAL UNDERSTANDIN G	4.4.1.	Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy.
STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

What are energy resources

${\bf New\,York\,State\,Learning\,Standards\,and\,Core\,Curriculum}$

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum

Science

Grade $\mathbf{1}$ - Adopted: $\mathbf{2005}$

STRAND /	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and
DOMAIN /		common themes that connect mathematics, science, and technology and apply the
UNIFYING		themes to these and other areas of learning.

THEME		
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G		Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

Science

Grade 2 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

What is and how to be Energy Efficient

New York State Learning Standards and Core Curriculum

Science

Grade K - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	7.1:	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	7.1.1.	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

${\bf New\,York\,State\,Learning\,Standards\,and\,Core\,Curriculum}$

Science

Grade 1 - Adopted: 2005

STRAND / DOMAIN / UNIFYING THEME	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.
CLUSTER / KEY to make of scie	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.	
STANDARD / CONCEPTUAL UNDERSTANDIN G		Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

New York State Learning Standards and Core Curriculum

Science

STRAND /	NY.7.	Interdisciplinary Problem Solving: Students will understand the relationships and
DOMAIN /		common themes that connect mathematics, science, and technology and apply the

UNIFYING THEME	themes to these and other areas of learning.
CATEGORY / CLUSTER / KEY IDEA	The knowledge and skills of mathematics, science, and technology are used together to make informed decisions and solve problems, especially those relating to issues of science/technology/society, consumer decision making, design, and inquiry into phenomena.
STANDARD / CONCEPTUAL UNDERSTANDIN G	Analyze science/technology/society problems and issues that affect their home, school, or community, and carry out a remedial course of action

Next Generation Science Standards (NGSS)

Science

Grade K - Adopted: 2013

STRAND	NGSS.K- ESS.	EARTH AND SPACE SCIENCE
TITLE	K-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION		Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

© 2015 EdGate Correlation Services, LLC.All Rights reserved. Contact Us - Privacy - Service Agreement