

Main Criteria: National Theatre for Children
Secondary Criteria: Florida Standards, Next Generation Science Standards (NGSS)
Subject: Science
Grades: K, 1, 2

National Theatre for Children

How electricity is made

Florida Standards

Science

Grade 1 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.1.N.	Nature of Science
BIG IDEA	SC.1.N.1.	The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation . B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method." C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and processes, but also in its questions and explanations.
BENCHMARK	SC.1.N.1.1.	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.

Florida Standards

Science

Grade 2 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.2.N.	Nature of Science
BIG IDEA	SC.2.N.1.	The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method." C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and processes, but also in its questions and explanations.
BENCHMARK	SC.2.N.1.1.	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.
BENCHMARK	SC.2.N.1.3.	Ask "how do you know?" in appropriate situations and attempt reasonable answers when asked the same question by others.
BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

How energy is used unwisely

Next Generation Science Standards (NGSS)

Science

Grade K - Adopted: 2013

STRAND	NGSS.K-	EARTH AND SPACE SCIENCE
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	ESS.	
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.

How we use natural resources

Florida Standards

Science

Grade 2 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

The science of energy and technology

Florida Standards

Science

Grade 2 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

The science of natural resources

Florida Standards

Science

Grade 2 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

The uses of electricity

Florida Standards

Science

Grade 1 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.1.N.	Nature of Science
BIG IDEA	SC.1.N.1.	The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation . B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method." C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and

		processes, but also in its questions and explanations.
BENCHMARK	SC.1.N.1.1.	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.
BODY OF KNOWLEDGE	FL.SC.1.E.	Earth and Space Science
BIG IDEA	SC.1.E.5.	Earth in Space and Time - Humans continue to explore Earth's place in space. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the Solar System, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of our Solar System.
BENCHMARK	SC.1.E.5.4.	Identify the beneficial and harmful properties of the Sun.

**Florida Standards
Science
Grade 2 - Adopted: 2008**

BODY OF KNOWLEDGE	FL.SC.2.N.	Nature of Science
BIG IDEA	SC.2.N.1.	The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method." C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and processes, but also in its questions and explanations.
BENCHMARK	SC.2.N.1.1.	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.
BENCHMARK	SC.2.N.1.3.	Ask "how do you know?" in appropriate situations and attempt reasonable answers when asked the same question by others.
BODY OF KNOWLEDGE	FL.SC.2.N.	Nature of Science
BIG IDEA	SC.2.E.7.	Earth Systems and Patterns - Humans continue to explore the interactions among water, air, and land. Air and water are in constant motion that results in changing conditions that can be observed over time.
BENCHMARK	SC.2.E.7.2.	Investigate by observing and measuring, that the Sun's energy directly and indirectly warms the water, land, and air.
BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

**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

Florida Standards

Science

Grade 2 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

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	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 are energy and electricity

No Correlations Found

What are energy resources

Florida Standards

Science

Grade 2 - Adopted: 2008

BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BIG IDEA	SC.2.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK	SC.2.P.10.1.	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

What is and how to be Energy Efficient

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	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.