Main Criteria: National Theatre for Children

Secondary Criteria: Minnesota Academic Standards, Next Generation Science Standards (NGSS)

Subject: Science

Grades: K, 1, 2

National Theatre for Children

How electricity is made

Minnesota Academic Standards

Science

Grade **1** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.1.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**1.1.1.**	**The Practice of Science**
INDICATORS OF PROGRESS / STRAND	**1.1.1.1.**	**The student will understand that scientists work as individuals and groups to investigate the natural world, emphasizing evidence and communicating with others.**
INDICATORS OF PROGRESS	**1.1.1.1.2.**	**Recognize that describing things as accurately as possible is important in science because it enables people to compare their observations with those of others.**

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**2.1.1.**	**The Practice of Science**
INDICATORS OF PROGRESS / STRAND	**2.1.1.2.**	**The student will understand that scientific inquiry is a set of interrelated processes incorporating multiple approaches that are used to pose questions about the natural world and investigate phenomena.**
INDICATORS OF PROGRESS	**2.1.1.2.1.**	**Raise questions about the natural world and seek answers by making careful observations, noting what happens when you interact with an object, and sharing the answers with others.**
CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**2.1.2.**	**The Practice of Engineering**
INDICATORS OF PROGRESS / STRAND	**2.1.2.2.**	**The student will understand that engineering design is the process of identifying problems and devising a product or solution.**
INDICATORS OF PROGRESS	**2.1.2.2.3.**	**Explain how engineered or designed items from everyday life benefit people.**

How energy is used unwisely

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**

PERFORMANCE INDICATOR / DOMAIN COMPONENT	2.1.2.	The Practice of Engineering
INDICATORS OF PROGRESS / STRAND	2.1.2.2.	The student will understand that engineering design is the process of identifying problems and devising a product or solution.
INDICATORS OF PROGRESS	2.1.2.2.3.	Explain how engineered or designed items from everyday life benefit people.

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.

How we use natural resources

Minnesota Academic Standards

Science

Grade **1** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.1.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	1.3.1.	Earth Structure and Processes
INDICATORS OF PROGRESS / STRAND	1.3.1.3.	The student will understand that Earth materials include solid rocks, sand, soil and water. These materials have different observable physical properties that make them useful.
INDICATORS OF PROGRESS	1.3.1.3.3.	Identify and describe large and small objects made of Earth materials.

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.2.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	2.1.2.	The Practice of Engineering
INDICATORS OF PROGRESS / STRAND	2.1.2.2.	The student will understand that engineering design is the process of identifying problems and devising a product or solution.
INDICATORS OF PROGRESS	2.1.2.2.3.	Explain how engineered or designed items from everyday life benefit people.

The science of energy and technology

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.2.1.	The Nature of Science and Engineering

PERFORMANCE INDICATOR / DOMAIN COMPONENT	2.1.2.	The Practice of Engineering
INDICATORS OF PROGRESS / STRAND	2.1.2.2.	The student will understand that engineering design is the process of identifying problems and devising a product or solution.
INDICATORS OF PROGRESS	2.1.2.2.3.	Explain how engineered or designed items from everyday life benefit people.

The science of natural resources

Minnesota Academic Standards

Science

Grade **1** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.1.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	1.3.1.	Earth Structure and Processes
INDICATORS OF PROGRESS / STRAND	1.3.1.3.	The student will understand that Earth materials include solid rocks, sand, soil and water. These materials have different observable physical properties that make them useful.
INDICATORS OF PROGRESS	1.3.1.3.3.	Identify and describe large and small objects made of Earth materials.

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.2.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	2.1.2.	The Practice of Engineering
INDICATORS OF PROGRESS / STRAND	2.1.2.2.	The student will understand that engineering design is the process of identifying problems and devising a product or solution.
INDICATORS OF PROGRESS	2.1.2.2.3.	Explain how engineered or designed items from everyday life benefit people.

The uses of electricity

Minnesota Academic Standards

Science

Grade **K** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.0.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	0.3.2.	Interdependence Within the Earth System
INDICATORS OF PROGRESS / STRAND	0.3.2.2.	The student will understand that weather can be described in measurable quantities and changes from day to day and with the seasons.
INDICATORS OF PROGRESS	0.3.2.2.2.	Identify the sun as a source of heat and light.

Minnesota Academic Standards

Science

Grade **1** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.1.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	1.1.1.	The Practice of Science
INDICATORS OF PROGRESS / STRAND	1.1.1.1.	The student will understand that scientists work as individuals and groups to investigate the natural world, emphasizing evidence and communicating with others.
INDICATORS OF PROGRESS	1.1.1.1.2.	Recognize that describing things as accurately as possible is important in science because it enables people to compare their observations with those of others.

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	MN.2.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	2.1.1.	The Practice of Science
INDICATORS OF PROGRESS / STRAND	2.1.1.2.	The student will understand that scientific inquiry is a set of interrelated processes incorporating multiple approaches that are used to pose questions about the natural world and investigate phenomena.
INDICATORS OF PROGRESS	2.1.1.2.1.	Raise questions about the natural world and seek answers by making careful observations, noting what happens when you interact with an object, and sharing the answers with others.
CONTENT STANDARD / DOMAIN	MN.2.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	2.1.2.	The Practice of Engineering
INDICATORS OF PROGRESS / STRAND	2.1.2.2.	The student will understand that engineering design is the process of identifying problems and devising a product or solution.
INDICATORS OF PROGRESS	2.1.2.2.3.	Explain how engineered or designed items from everyday life benefit people.

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

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**2.1.2.**	**The Practice of Engineering**
INDICATORS OF PROGRESS / STRAND	**2.1.2.2.**	**The student will understand that engineering design is the process of identifying problems and devising a product or solution.**
INDICATORS OF PROGRESS	**2.1.2.2.3.**	**Explain how engineered or designed items from everyday life benefit people.**

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

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**2.1.2.**	**The Practice of Engineering**
INDICATORS OF PROGRESS / STRAND	**2.1.2.2.**	**The student will understand that engineering design is the process of identifying problems and devising a product or solution.**
INDICATORS OF PROGRESS	**2.1.2.2.3.**	**Explain how engineered or designed items from everyday life benefit people.**

What are energy resources

Minnesota Academic Standards

Science

Grade **1** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.1.3.**	**Earth and Space Science**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**1.3.1.**	**Earth Structure and Processes**
INDICATORS OF PROGRESS / STRAND	**1.3.1.3.**	**The student will understand that Earth materials include solid rocks, sand, soil and water. These materials have different observable physical properties that make them useful.**
INDICATORS OF PROGRESS	**1.3.1.3.3.**	**Identify and describe large and small objects made of Earth materials.**

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**2.1.2.**	**The Practice of Engineering**
INDICATORS OF PROGRESS / STRAND	**2.1.2.2.**	**The student will understand that engineering design is the process of identifying problems and devising a product or solution.**
INDICATORS OF PROGRESS	**2.1.2.2.3.**	**Explain how engineered or designed items from everyday life benefit people.**

What is and how to be Energy Efficient

Minnesota Academic Standards

Science

Grade **2** - Adopted: **2009**

CONTENT STANDARD / DOMAIN	**MN.2.1.**	**The Nature of Science and Engineering**
PERFORMANCE INDICATOR / DOMAIN COMPONENT	**2.1.2.**	**The Practice of Engineering**
INDICATORS OF PROGRESS / STRAND	**2.1.2.2.**	**The student will understand that engineering design is the process of identifying problems and devising a product or solution.**
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Next Generation Science Standards (NGSS)

Science

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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.**