

Main Criteria: National Theatre for Children

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

Subject: Science

Grades: 3, 4, 5

National Theatre for Children

The importance of water

Minnesota Academic Standards

Science

Grade 3 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.3.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	3.1.1.	The Practice of Science
INDICATORS OF PROGRESS / STRAND	3.1.1.2.	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	3.1.1.2.3.	Maintain a record of observations, procedures and explanations, being careful to distinguish between actual observations and ideas about what was observed.
INDICATORS OF PROGRESS	3.1.1.2.4.	Construct reasonable explanations based on evidence collected from observations or experiments.

Minnesota Academic Standards

Science

Grade 4 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.4.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	4.3.4.	Human Interactions with Earth Systems
INDICATORS OF PROGRESS / STRAND	4.3.4.1.	The student will understand that in order to improve their existence, humans interact with and influence Earth systems.
INDICATORS OF PROGRESS	4.3.4.1.1.	Describe how the methods people utilize to obtain and use water in their homes and communities can affect water supply and quality.

Minnesota Academic Standards

Science

Grade 5 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.5.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	5.1.1.	The Practice of Science
INDICATORS OF PROGRESS / STRAND	5.1.1.2.	The student will understand that scientific inquiry requires identification of assumptions, use of critical and logical thinking, and consideration of alternative explanations.
INDICATORS OF PROGRESS	5.1.1.2.2.	Identify and collect relevant evidence, make systematic observations and accurate measurements, and identify variables in a scientific investigation.
CONTENT STANDARD / DOMAIN	MN.5.3.	Earth and Space Science
PERFORMANCE	5.3.4.	Human Interaction with Earth Systems

INDICATOR / DOMAIN COMPONENT		
INDICATORS OF PROGRESS / STRAND	5.3.4.1.	The student will understand that in order to maintain and improve their existence, humans interact with and influence Earth systems.
INDICATORS OF PROGRESS	5.3.4.1.3.	Compare the impact of individual decisions on natural systems.

Next Generation Science Standards (NGSS)

Science

Grade 5 - Adopted: 2013

STRAND	NGSS.5-ESS.	EARTH AND SPACE SCIENCE
TITLE	5-ESS2.	Earth's Systems
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	5-ESS2-2.	Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.

The uses of water

Minnesota Academic Standards

Science

Grade 4 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.4.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	4.3.4.	Human Interactions with Earth Systems
INDICATORS OF PROGRESS / STRAND	4.3.4.1.	The student will understand that in order to improve their existence, humans interact with and influence Earth systems.
INDICATORS OF PROGRESS	4.3.4.1.1.	Describe how the methods people utilize to obtain and use water in their homes and communities can affect water supply and quality.

Minnesota Academic Standards

Science

Grade 5 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.5.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	5.3.4.	Human Interaction with Earth Systems
INDICATORS OF PROGRESS / STRAND	5.3.4.1.	The student will understand that in order to maintain and improve their existence, humans interact with and influence Earth systems.
INDICATORS OF PROGRESS	5.3.4.1.3.	Compare the impact of individual decisions on natural systems.

Next Generation Science Standards (NGSS)

Science

Grade 5 - Adopted: 2013

STRAND	NGSS.5-ESS.	EARTH AND SPACE SCIENCE
TITLE	5-ESS2.	Earth's Systems
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	5-ESS2-2.	Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.

STRAND	NGSS.5-ESS.	EARTH AND SPACE SCIENCE
TITLE	5-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	5-ESS3-1.	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Ways to conserve water

Minnesota Academic Standards

Science

Grade 4 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.4.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	4.3.4.	Human Interactions with Earth Systems
INDICATORS OF PROGRESS / STRAND	4.3.4.1.	The student will understand that in order to improve their existence, humans interact with and influence Earth systems.
INDICATORS OF PROGRESS	4.3.4.1.1.	Describe how the methods people utilize to obtain and use water in their homes and communities can affect water supply and quality.

Minnesota Academic Standards

Science

Grade 5 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.5.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	5.3.4.	Human Interaction with Earth Systems
INDICATORS OF PROGRESS / STRAND	5.3.4.1.	The student will understand that in order to maintain and improve their existence, humans interact with and influence Earth systems.
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Next Generation Science Standards (NGSS)

Science

Grade 5 - Adopted: 2013

STRAND	NGSS.5-ESS.	EARTH AND SPACE SCIENCE
TITLE	5-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	5-ESS3-1.	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Ways water is wasted

Minnesota Academic Standards

Science

Grade 3 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.3.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN	3.1.1.	The Practice of Science

COMPONENT		
INDICATORS OF PROGRESS / STRAND	3.1.1.2.	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	3.1.1.2.3.	Maintain a record of observations, procedures and explanations, being careful to distinguish between actual observations and ideas about what was observed.
INDICATORS OF PROGRESS	3.1.1.2.4.	Construct reasonable explanations based on evidence collected from observations or experiments.

Minnesota Academic Standards

Science

Grade 4 - Adopted: 2009

CONTENT STANDARD / DOMAIN	MN.4.1.	The Nature of Science and Engineering
PERFORMANCE INDICATOR / DOMAIN COMPONENT	4.1.2.	Practice of Engineering
INDICATORS OF PROGRESS / STRAND	4.1.2.1.	The student will understand that engineers design, create and develop structures, processes and systems that are intended to improve society and may make humans more productive.
INDICATORS OF PROGRESS	4.1.2.1.1.	Describe the positive and negative impacts that the designed world has on the natural world as more and more engineered products and services are created and used.
CONTENT STANDARD / DOMAIN	MN.4.3.	Earth and Space Science
PERFORMANCE INDICATOR / DOMAIN COMPONENT	4.3.4.	Human Interactions with Earth Systems
INDICATORS OF PROGRESS / STRAND	4.3.4.1.	The student will understand that in order to improve their existence, humans interact with and influence Earth systems.
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Minnesota Academic Standards

Science

Grade 5 - Adopted: 2009

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Next Generation Science Standards (NGSS)

Science

Grade 5 - Adopted: 2013

STRAND	NGSS.5-ESS.	EARTH AND SPACE SCIENCE
TITLE	5-ESS3.	Earth and Human Activity
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PERFORMANCE EXPECTATION	5-ESS3-1.	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

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