National Theatre for Children

How electricity is made

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **4** - Adopted: **2016**

STANDARD / STRAND	IN.4.PS.	Physical Science (PS)
PROFICIENCY STATEMENT / SUBSTRAND	4.PS.4.	Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.
STANDARD / STRAND	IN.4.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.2.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **5** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Next Generation Science Standards (NGSS)

Science

Grade **4** - Adopted: **2013**

STRAND	NGSS.4-PS.	PHYSICAL SCIENCE
TITLE	4-PS3.	Energy
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-PS3-2.	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.
STRAND	NGSS.4-ESS.	EARTH AND SPACE SCIENCE
TITLE	4-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:

PERFORMANCE EXPECTATION	4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

How energy is used unwisely

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **4** - Adopted: **2016**

STANDARD / STRAND	IN.4.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.2.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.4.	Develop solutions that could be implemented to reduce the impact of humans on the natural environment and the natural environment on humans.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **5** - Adopted: **2016**

STANDARD / STRAND	IN.5.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	5.ESS.3.	Investigate ways individual communities within the United States protect the Earth's resources and environment.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Next Generation Science Standards (NGSS)

Science

Grade **4** - Adopted: **2013**

STRAND	NGSS.4-PS.	PHYSICAL SCIENCE
TITLE	4-PS3.	Energy
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-PS3-2.	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.
STRAND	NGSS.4-ESS.	EARTH AND SPACE SCIENCE
TITLE	4-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

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.**

How we use natural resources

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	**Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.**

STANDARD / STRAND	IN.4.PS.	**Physical Science (PS)**
PROFICIENCY STATEMENT / SUBSTRAND	4.PS.4.	**Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.**
STANDARD / STRAND	IN.4.ESS.	**Earth and Space Science (ESS)**
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.2.	**Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.**
STANDARD / STRAND	IN.3-5.IC.	**Impact and Culture (IC)**
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	**Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	**Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.**

STRAND	NGSS.4-ESS.	EARTH AND SPACE SCIENCE
TITLE	4-ESS3.	**Earth and Human Activity**
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-ESS3-1.	**Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.**

The science of energy and technology

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **4** - Adopted: **2016**

STANDARD / STRAND	IN.4.PS.	Physical Science (PS)
PROFICIENCY STATEMENT / SUBSTRAND	4.PS.4.	Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.
STANDARD / STRAND	IN.4.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.2.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **5** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Next Generation Science Standards (NGSS)

Science

Grade **4** - Adopted: **2013**

STRAND	NGSS.4-PS.	PHYSICAL SCIENCE
TITLE	4-PS3.	Energy
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-PS3-2.	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.
STRAND	NGSS.4-ESS.	EARTH AND SPACE SCIENCE
TITLE	4-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

The science of natural resources

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD /	IN.3-5.IC.	Impact and Culture (IC)

STRAND		
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **4** - Adopted: **2016**

STANDARD / STRAND	IN.4.PS.	Physical Science (PS)
PROFICIENCY STATEMENT / SUBSTRAND	4.PS.4.	Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.
STANDARD / STRAND	IN.4.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.2.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **5** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Next Generation Science Standards (NGSS)

Science

Grade **4** - Adopted: **2013**

STRAND	NGSS.4-ESS.	EARTH AND SPACE SCIENCE
TITLE	4-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

The uses of electricity

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

Grade **4** - Adopted: **2016**

STANDARD / STRAND	IN.4.PS.	Physical Science (PS)
PROFICIENCY STATEMENT /	4.PS.4.	Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.

SUBSTRAND		
STANDARD / STRAND	**IN.4.ESS.**	**Earth and Space Science (ESS)**
PROFICIENCY STATEMENT / SUBSTRAND	**4.ESS.2.**	**Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.**
STANDARD / STRAND	**IN.3-5.IC.**	**Impact and Culture (IC)**
PROFICIENCY STATEMENT / SUBSTRAND	**3-5.IC.2.**	**Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.**

Indiana Academic Standards

Science

Grade **5** - Adopted: **2016**

STANDARD / STRAND	**IN.3-5.IC.**	**Impact and Culture (IC)**
PROFICIENCY STATEMENT / SUBSTRAND	**3-5.IC.2.**	**Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.**

Next Generation Science Standards (NGSS)

Science

Grade **4** - Adopted: **2013**

STRAND	**NGSS.4-ESS.**	**EARTH AND SPACE SCIENCE**
TITLE	**4-ESS3.**	**Earth and Human Activity**
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	**4-ESS3-1.**	**Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.**

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.**

What YOU can do to conserve energy

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	**IN.3-5.IC.**	**Impact and Culture (IC)**
PROFICIENCY STATEMENT / SUBSTRAND	**3-5.IC.2.**	**Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.**

Indiana Academic Standards

Science

Grade **4** - Adopted: **2016**

STANDARD / STRAND	**IN.4.PS.**	**Physical Science (PS)**
PROFICIENCY STATEMENT / SUBSTRAND	**4.PS.4.**	**Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.**

STANDARD / STRAND	IN.4.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.2.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
PROFICIENCY STATEMENT / SUBSTRAND	4.ESS.4.	Develop solutions that could be implemented to reduce the impact of humans on the natural environment and the natural environment on humans.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
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Indiana Academic Standards

Science

Grade **5** - Adopted: **2016**

STANDARD / STRAND	IN.5.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	5.ESS.3.	Investigate ways individual communities within the United States protect the Earth's resources and environment.
STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
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Science

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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.

What are energy and electricity

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

Indiana Academic Standards

Science

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Science

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		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-PS3-2.	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

What are energy resources

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
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STRAND	NGSS.4-ESS.	EARTH AND SPACE SCIENCE
TITLE	4-ESS3.	Earth and Human Activity
		Students who demonstrate understanding can:
PERFORMANCE EXPECTATION	4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

What is and how to be Energy Efficient

Indiana Academic Standards

Science

Grade **3** - Adopted: **2016**

STANDARD / STRAND	IN.3-5.IC.	Impact and Culture (IC)
PROFICIENCY STATEMENT / SUBSTRAND	3-5.IC.2.	Identify the impact of technology (e.g., social networking, cyber bullying, mobile computing and communication, web technologies, cyber security, and virtualization) on personal life and society.

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STANDARD / STRAND	IN.5.ESS.	Earth and Space Science (ESS)
PROFICIENCY STATEMENT / SUBSTRAND	5.ESS.3.	Investigate ways individual communities within the United States protect the Earth's resources and environment.

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Next Generation Science Standards (NGSS)

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