Grade 4 - Alberta Science Curriculum Connections



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Activity Name	Organizing Idea	Learning Outcome	
Activity: Knowing Energy: Stair Climb	Energy	Students investigate how forces can act on objects without contact.	
Activity: Knowing Energy: Stair Climb	Scientific Methods	Students investigate evidence and reflect on its role in science.	
Activity: Knowing Energy: Top at Home	Energy	Students investigate how forces can act on objects without contact.	
Activity: Knowing Energy: Tea at Home	Scientific Methods	Students investigate evidence and reflect on its role in science.	
Activity: Knowing Energy: Pace to a kWh	Energy	Students investigate how forces can act on objects without contact.	
Activity: Knowing Energy: Race to a kWh	Scientific Methods	Students investigate evidence and reflect on its role in science.	
Activity: Knowing Energy: How Intense is Your Electricity Usage?	Energy	Students investigate how forces can act on objects without contact.	
Activity. Knowing Energy. How interise is four Electricity Osage:	Scientific Methods	Students investigate evidence and reflect on its role in science.	
A stiritus Massacina - Fasacana The Flactuicitus Cuid	Energy	Students investigate how forces can act on objects without contact.	
Activity: Knowing Energy: The Electricity Grid	Scientific Methods	Students investigate evidence and reflect on its role in science.	
	Energy	Students investigate how forces can act on objects without contact.	
Activity: Knowing Energy: Renewables	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.	
	Scientific Methods	Students investigate evidence and reflect on its role in science.	
Activity: Knowing Energy: The Rig Dicture	Energy	Students investigate how forces can act on objects without contact.	
Activity: Knowing Energy: The Big Picture	Scientific Methods	Students investigate evidence and reflect on its role in science.	
Activity: All About the Baseline	Grade 7-12		
	Energy	Students investigate how forces can act on objects without contact.	
Activity: Can You Observe How You Conserve?	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.	
	Scientific Methods	Students investigate evidence and reflect on its role in science.	

Activity: Energy Hogs	Energy	Students investigate how forces can act on objects without contact.
Activity: Elici 8y 11083	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity of France France Investigation	Energy	Students investigate how forces can act on objects without contact.
Activity: Extra Energy Investigation	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: How Smart is Your Smart Board?	Grade 7-12	
Activity: Imagination Station	Energy	Students investigate how forces can act on objects without contact.
Activity: Imagination Station	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Small Appliance Energy Reliance	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity Start Mollel	Energy	Students investigate how forces can act on objects without contact.
Activity: Start Me Up!	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Tako a Look	Energy	Students investigate how forces can act on objects without contact.
Activity: Take a Look	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Total Energy vs. Total Cost	Grade 7-12	
Activity: Understanding Energy Efficiency in Your School	Grade 7-12	
	Energy	Students investigate how forces can act on objects without contact.
Activity: Community Walk	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: School Energy Audit	Grade 7-12	
	Energy	Students investigate how forces can act on objects without contact.
Activity: Energy Efficient Lighting	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Find the Phantem Lead	Energy	Students investigate how forces can act on objects without contact.
Activity: Find the Phantom Load	Scientific Methods	Students investigate evidence and reflect on its role in science.
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	Energy	Students investigate how forces can act on objects without contact.
Activity: Home Energy Audit	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Watchers and Seekers	Computer Science	Students examine and apply design processes to meet needs.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Back to the Future	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Changing Our Ways	Energy	Students investigate how forces can act on objects without contact.
Activity: Changing Our Ways	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Exploring Our Energy Ethics	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Onco Unon a Piko	Energy	Students investigate how forces can act on objects without contact.
Activity: Once Upon a Bike	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Puzzling Over Energy Issues	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Ride, Roll and Stroll	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Speak for the Trees	Grade 7-12	
Activity Taking the Lead	Energy	Students investigate how forces can act on objects without contact.
Activity: Taking the Lead	Scientific Methods	Students investigate evidence and reflect on its role in science.

Activity: Walk a Mile	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.

Grade 5 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students investigate and compare how forces affect living things and objects in water and air.
Activity: Knowing Energy: Stair Climb	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Matter	Students investigate the particle model of matter in relation to the physical properties of solids, liquids, and gases.
Activity: Knowing Energy: Tea at Home	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: Pace to a kWh	Energy	Students investigate and compare how forces affect living things and objects in water and air.
Activity: Knowing Energy: Race to a kWh	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: How Intense is Your Floatricity Usage?	Energy	Students investigate and compare how forces affect living things and objects in water and air.
<u>Activity: Knowing Energy: How Intense is Your Electricity Usage?</u>	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: The Electricity Grid	Energy	Students investigate and analyze various energy resources.
Activity. Knowing Energy. The Electricity Grid	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: Renewables	Energy	Students investigate and analyze various energy resources.
Activity. Knowing Energy. Renewables	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: The Pig Dicture	Energy	Students investigate and analyze various energy resources.
<u>Activity: Knowing Energy: The Big Picture</u>	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: All About the Baseline	Grade 7-12	
Activity: Can You Observe How You Can Consorve?	Energy	Students investigate and analyze various energy resources.
Activity: Can You Observe How You Can Conserve?	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Enorgy Hogs	Energy	Students investigate and analyze various energy resources.
Activity: Energy Hogs	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.

Activity: Extra Energy Investigation	Energy	Students investigate and analyze various energy resources.
ACTIVITY. EXTIA ETIET BY TITVESTIGATION	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: How Smart is Your Smart Board?	Grade 7-12	
Activity: Imagination Station	Energy	Students investigate and analyze various energy resources.
Activity: Imagination Station	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Small Appliance Energy Poliance	Energy	Students investigate and analyze various energy resources.
<u>Activity: Small Appliance Energy Reliance</u>	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Start Mo Uni	Energy	Students investigate and analyze various energy resources.
Activity: Start Me Up!	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Take a Look	Energy	Students investigate and analyze various energy resources.
Activity: Take a Look	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Total Energy vs. Total Cost	Grade 7-12	
Activity: Understanding Energy Efficiency in Your School	Grade 7-12	
Activity: Community Walk	Energy	Students investigate and analyze various energy resources.
Activity: Community Walk	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: School Energy Audit	Grade 7-12	
Activity: Energy Efficient Lighting	Energy	Students investigate and analyze various energy resources.
Activity: Energy Efficient Lighting	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Find the Phantom Load	Energy	Students investigate and analyze various energy resources.
Activity: Find the Phantom Load	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity Home Energy Audit	Energy	Students investigate and analyze various energy resources.
Activity: Home Energy Audit	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Energy	Students investigate and analyze various energy resources.
Activity: Watchers and Seekers	Computer Science	Students apply design processes when creating artifacts that can be used by a human or machine to address a need.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.

Activity: Back to the Future	Energy	Students investigate and analyze various energy resources.
Activity. Back to the ruture	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Changing Our Ways	Energy	Students investigate and analyze various energy resources.
Activity: Changing Our Ways	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity Evaloring Our Engrav Ethics	Energy	Students investigate and analyze various energy resources.
Activity: Exploring Our Energy Ethics	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity Open Upon a Bile	Energy	Students investigate and analyze various energy resources.
Activity: Once Upon a Bike	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Energy	Students investigate and analyze various energy resources.
Activity: Puzzling Over Energy Issues	Earth Systems	Students analyze climate and connect it to weather conditions and agricultural practices.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Energy	Students investigate and analyze various energy resources.
Activity: Ride, Roll and Stroll	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Speak for the Trees	Grade 7-12	
Activity a Talsing the Local	Energy	Students investigate and analyze various energy resources.
Activity: Taking the Lead	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
A chindre Water to Mile	Energy	Students investigate and analyze various energy resources.
Activity: Walk a Mile	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.

Grade 6 - Alberta Science Curriculum Connections



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Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students analyze forces and relate them to interactions between objects.
Activity: Knowing Energy: Stair Climb	Scientific Methods	Students investigate and describe the role of explanation in science.
	Matter	Students investigate how particles of matter behave when heated or cooled and analyze effects on solids, liquids, and gases.
Activity: Knowing Energy: Tea at Home	Energy	Students analyze forces and relate them to interactions between objects.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Engrav Paco to a kWh	Energy	Students analyze forces and relate them to interactions between objects.
Activity: Knowing Energy: Race to a kWh	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity / Knowing Engrave How Intongo is Vous Floatvicity Hango?	Energy	Students analyze forces and relate them to interactions between objects.
Activity: Knowing Energy: How Intense is Your Electricity Usage?	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Engrave The Floctricity Crid	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Knowing Energy: The Electricity Grid	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Knowing Energy: Renewables	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity / Vacuring Engage The Dig Digture	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Knowing Energy: The Big Picture	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: All About the Baseline	Grade 7-12	
Activity, Can Vou Observe How Voy Can Conserve?	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Can You Observe How You Can Conserve?	Scientific Methods	Students investigate and describe the role of explanation in science.

Activity: Energy Hegs	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Energy Hogs	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Eytra Energy Investigation	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Extra Energy Investigation	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: How Smart is Your Smart Board?	Grade 7-12	
Activity: Imagination Station	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Imagination Station	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Small Appliance Energy Poliance	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Small Appliance Energy Reliance	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Start Mo Hal	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Start Me Up!	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Take a Look	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Take a Look	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Total Energy vs. Total Cost	Grade 7-12	
Activity: Total Energy vs. Total Cost Activity: Understanding Energy Efficiency in Your School	Grade 7-12 Grade 7-12	
Activity: Understanding Energy Efficiency in Your School		Students investigate energy resources and explain factors that influence their use.
	Grade 7-12	Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School	Grade 7-12 Energy	
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit	Grade 7-12 Energy Scientific Methods	
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk	Grade 7-12 Energy Scientific Methods Grade 7-12	Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods Energy	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods Energy Scientific Methods	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting Activity: Find the Phantom Load	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods Energy Scientific Methods Energy Scientific Methods Energy	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use.

	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Watchers and Seekers	Computer Science	Students examine abstraction in relation to design and coding and describe impacts of technologies.
	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Back to the Future	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Changing Our Mays	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Changing Our Ways	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Exploring Our Energy Ethics	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Onco Unon a Piko	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Once Upon a Bike	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Puzzling Over Energy Issues	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Ride, Roll and Stroll	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Speak for the Trees	Grade 7-12	
Activity: Taking the Lead	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Taking the Lead	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Walk a Mile	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.

Grade 7 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
	Heat and Temperature	Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
Activity: Knowing Energy: Stair Climb		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
	Heat and Temperature	Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
Activity: Knowing Energy: Tea at Home	·	Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
Activity: Knowing Energy: Pace to a kWh	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
Activity: Knowing Energy: Race to a kWh	Structures and Forces	Investigate and analyze the properties of materials used in structures
		Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
	Heat and Temperature Structures and Forces	Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
ctivity: Knowing Energy: How Intense is Your Electricity sage?		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

		Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
	Heat and Temperature	Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
Activity: Knowing Energy: The Electricity Grid		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
		Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
Activity: Knowing Energy: Renewables		Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
Activity, Knowing Engran The Dig Disture	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
Activity: Knowing Energy: The Big Picture	Structures and Forces	Investigate and analyze the properties of materials used in structures

Activity: All About the Baseline	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
Activity: Can You Observe How You Conserve?	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
The state of the s		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
Activity: Energy Hogs	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

Activity: Extra Energy Investigation	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
<u> Metivicy. Extra Eller Sy Ilivesti Sacioli</u>		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
Activity: How Smart is Your Smart Board?		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
Activity: Imagination Station	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

Activity: Small Appliance Energy Reliance	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
Activity: Start Me Up!		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
Activity: Take a Look	Grade 4-6	
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Total Energy vs. Total Cost	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Ctructures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures

Activity: Understanding Energy Efficiency in Your School	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Community Walk	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
Activity: School Energy Audit	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
Activity: Energy Efficient Lighting		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
Activity: Find the Phantom Load		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
Activity. That the Thantom Load		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Home Energy Audit		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

Activity: Watchers and Seekers	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
recivicy. Wateriers and seekers		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Standard France	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Back to the Future	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
Activity: Changing Our Ways	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		

	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
Activity: Exploring Our Energy Ethics	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Once Upon a Bike	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
Activity: Puzzling Over Energy Issues	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Ride, Roll and Stroll	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
Activity: Speak for the Trees	Plants for Food and Fibre	Analyze plant environments, and identify impacts of specific factors and controls
		Identify and interpret relationships among human needs, technologies, environments, and the culture and use of living things as sources of food and fibre
	Planet Earth	Describe and demonstrate methods used in the scientific study of Earth and in observing and interpreting its component materials
	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Taking the Lead	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures

	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
Activity: Walk a Mile	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
	Structures and Forces	Investigate and analyze the properties of materials used in structures