

Energy and Society - Music
5th Grade TEKS

Energy & Me Music	TEKS Correlation
It Is the Energy, It is the Sun	5.8A differentiate among forms of energy including light, heat, electrical, and solar energy.
The Rock and Roll of Photosynthesis	5.5A describe some cycles, structures, and processes that are found in a simple system.
	5.5B describe some interactions that occur in a simple system.
	5.6B identify the significance of the water, carbon, and nitrogen cycles.
Water Cycle	5.5A describe some cycles, structures, and processes that are found in a simple system.
	5.5B describe some interactions that occur in a simple system.
	5.6B identify the significance of the water, carbon, and nitrogen cycles.
Ecosystem	5.5A describe some cycles, structures, and processes that are found in a simple system
	5.9C predict some adaptive characteristics required for survival and reproduction by an organism in an ecosystem.
Energy	5.5A describe some cycles, structures, and processes that are found in a simple system
	5.5B describe some interactions that occur in a simple system.
Energy & Me Energia y Yo	5.8A differentiate among forms of energy including light, heat, electrical, and solar energy.
Energy Now, Energy Then	5.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	5.8C demonstrate that electricity can flow in a circuit and can produce heat, light, sound, and magnetic effects.
What, What Is...	5.7A classify matter based on its physical properties including magnetism, physical state and ability to conduct or insulate heat, electricity, and sound.
	5.11C identify past events that led to the formation of the Earth's renewable, non-renewable and inexhaustible resources.
Resources	5.1 B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	5.11C identify past events that led to the formation of the Earth's renewable, non-renewable and inexhaustible resources.
On the Move	5.5A describe some cycles, structures, and processes that are found in a simple system.
	5.5B describe some interactions that occur in a simple system.
Reduce, Reuse, Recycle Engine Oil	5.1 B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
Our Changing World	5.5A describe some cycles, structures, and processes that are found in a simple system
	5.5B describe some interactions that occur in a simple system.
	5.6B identify the significance of the water, carbon, and nitrogen cycles.
We Can Save Energy	5.1 B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
Yummy, Yummy	5.5A describe some cycles, structures, and processes that are found in a simple system.
	5.5B describe some interactions that occur in a simple system.
	5.9A compare the adaptive characteristics of species that improve their ability to survive and reproduce in an ecosystem.

Energy and Society Activities
5th Grade TEKS

Activity	TEKS
Energy Detectives	5.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence
	5.2E construct simple graphs, tables, maps and charts using tools including computers to organize, examine and evaluate information
	5.8A differentiate among forms of energy including light, heat, electrical, and solar energy.
	5.8C demonstrate that electricity can flow in a circuit and can produce heat, light sound and magnetic effects.
	5.8D verify that vibrating an object can produce sound.
May the Source Be with You	5.11C identify past events that led to the formation of the Earth's renewable, non-renewable and inexhaustible resources.
	5.12B describe processes responsible for the formation of coal, oil, gas, and minerals.
Energy Chains	5.8A differentiate among forms of energy including light, heat, electrical, and solar energy.
	5.8C demonstrate that electricity can flow in a circuit and can produce heat, light sound and magnetic effects.
What Powers the Move?	5.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	5.3C represent the natural world using models and identify their limitations.
In the Driver's Seat	5.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	5.3B draw inferences based on information related to promotional materials for products and services.
	5.4A collect and analyze information using tools including calculators, microscopes, cameras, sound recorders, computers, hand lenses, rulers, thermometers, compasses, balances, hot plates, metersticks, timing devices, magnets, collecting nets, and safety goggles.
Energy Challenge Game	5.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	5.3B draw inferences based on information related to promotional materials for products and services
	5.8A differentiate among forms of energy including light, heat, electrical, and solar energy.
Energy Action Programs-Science Fair Projects	5.2A plan and implement descriptive and simple experimental investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology.
	5.2B collect information by observing and measuring
	5.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence
	5.2E construct simple graphs, tables, maps and charts using tools including computers to organize, examine and evaluate information
	5.8C demonstrate that electricity can flow in a circuit and can produce heat, light sound and magnetic effects.

Energy and Society Activities
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Case Study: The Sacramento Shade Tree Program	5.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	5.2D communicate valid conclusions.
	5.4A collect and analyze information using tools including calculators, microscopes, cameras, sound recorders, computers, hand lenses, rulers, thermometers, compasses, balances, hot plates, metersticks, timing devices, magnets, collecting nets, and safety goggles.
Case Study: The Wind-up Radio	5.8C demonstrate that electricity can flow in a circuit and can produce heat, light sound and magnetic effects.
	5.3D evaluate the impact of research on scientific thought, society, and the environment.

Energy and Society Music
6th Grade TEKS

Music	TEKS
It Is the Energy, It Is the Sun	6.8A define matter and energy;
	6.8B explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin.
	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy.
	6.9C research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible.
The Rock and Roll of Photosynthesis	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy.
	6.10B determine that all organisms are composed of cells that carry on functions to sustain life.
Water Cycle	6.8B explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin.
	6.14C describe components of the atmosphere, including oxygen, nitrogen and water vapor and identify the role of atmospheric movement in weather change.
Ecosystem	6.8B explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin.
	6.12A. identify responses in organisms to internal stimuli such as hunger or thirst.
	6.12B identify responses in organisms to external stimuli such as the presence or absence of heat or light.
	6.12C identify components of an ecosystem to which organisms may respond.
Energy	6.8A define matter and energy;
	6.8B explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin.
	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy.
Energy & Me Energia y Yo	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy.
Energy Now, Energy Then	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
What, What Is...	6.7A demonstrate that new substances can be made when two or more substances are chemically combined and compare the properties of the new substances to the original substances.
	6.7B classify substances by their physical and chemical properties
	6.9C research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible.
Resources	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	6.9C research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible.
On the Move	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
Reduce, Reuse, Recycle Engine Oil	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	6.3B draw inferences based on data related to promotional materials for products and services.
Our Changing World	6.5B describe how the properties of a system are different from the properties of its parts.
	6.14C describe components of the atmosphere, including oxygen, nitrogen and water vapor and identify the role of atmospheric movement in weather change.

Energy and Society Music
6th Grade TEKS

We Can Save Energy	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	6.3B draw inferences based on data related to promotional materials for products and services.
Yummy, Yummy	6.10A differentiate between structure and function
	6.10B determine that all organisms are composed of cells that carry on functions to sustain life.

Energy and Society Activities
6th Grade TEKS

Activity	TEKS
Energy Detective	6.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence
	6.2 D communicate valid conclusions.
	6.8A define matter and energy;
	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy.
May the Source Be With You	6.9C research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible
Energy Chains	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy;
	6.9B compare methods used for transforming energy in devices such as water heaters, cooling systems, or hydroelectric and wind power plants.
What Powers the Move?	6.3B draw inferences based on data related to promotional materials for products and services.
	6.9C research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible.
In the Drivers Seat	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	6.3B draw inferences based on data related to promotional materials for products and services.
	6.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes.
	6.4B identify patterns in collected information using percent, average, range, and frequency.
Energy Challenge Game	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	6.3B draw inferences based on data related to promotional materials for products and services.
	6.8B explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin.
	6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy;
	6.9B compare methods used for transforming energy in devices such as water heaters, cooling systems, or hydroelectric and wind power plants

Energy and Society Activities
6th Grade TEKS

Energy Action Programs-Science Fair Projects	6.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.
	6.2B collect data by observing and measuring.
	6.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence.
	6.2D communicate valid conclusions.
	6.2E construct graphs, tables, maps and charts using tool including computers to organize, examine and evaluate data.
Case Study: The Sacramento Shade Tree Program	6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	6.2D communicate valid conclusions.
	6.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes.
Case Study: The Wind-up Radio	6.3D evaluate the impact of research on scientific thought, society, and the environment.

Energy and Society Music
7th Grade TEKS

Music	TEKS
It Is the Energy, It Is the Sun	7.8B identify that radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis.
The Rock and Roll of Photosynthesis	7.8B identify that radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis.
Water Cycle	7.12A identify components of an ecosystem.
Ecosystem	7.9B describe how organisms maintain stable internal conditions while living in changing external environments.
	7.11B identify responses in organisms to external stimuli found in the environment such as the presence or absence of light.
	7.12A identify components of an ecosystem.
	7.12B observe and describe how organisms including producers, consumers, and decomposers live together in an environment and use existing resources.
	7.12C describe how different environments support different varieties of organisms.
Energy	7.6C relate forces to basic processes in living organisms including the flow of blood and the emergence of seedlings.
	7.9B describe how organisms maintain stable internal conditions while living in changing external environments.
Energy & Me Energia y Yo	7.8A illustrate examples of potential and kinetic energy in everyday life such as objects at rest, movement of geologic faults, and falling water.
Energy Now, Energy Then	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
What, What Is...	7.14C make inferences and draw conclusions about effects of human activity on Earth's renewable, non-renewable, and inexhaustible resources.
Resources	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
On the Move	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
Reduce, Reuse, Recycle Engine Oil	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	7.14B draw inferences based on data related to promotional materials for products and services.
Our Changing World	7.14C make inferences and draw conclusions about effects of human activity on Earth's renewable, non-renewable, and inexhaustible resources.
We Can Save Energy	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	7.3B draw inferences based on data related to promotional materials for products and services.
Yummy, Yummy	7.8B identify that radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis.
	7.9B describe how organisms maintain stable internal conditions while living in changing external environments.
	7.11A analyze changes in organisms such as a fever or vomiting that may result from internal stimuli.
	7.11B identify responses in organisms to external stimuli found in the environment such as the presence or absence of light.

Energy and Society Activities
7th Grade TEKS

Activity	TEKS
Energy Detective	7.8A illustrate examples of potential and kinetic energy in everyday life such as of objects at rest, movement of geologic faults, and falling water.
May the Source Be With You	7.8B identify that radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis.
	7.14C make inferences and draw conclusions about effects of human activity on Earth's renewable, non-renewable, and inexhaustible resources.
Energy Chains	7.2D communicate valid conclusion
	7.2E construct graphs, tables, maps and charts using tools including computers to organize, examine and evaluate data.
	7.4B collect and analyze information to recognize patterns such as rates of change.
What Powers the Move?	7.3B draw inferences based on data related to promotional materials for products and services.
	7.6A demonstrate basic relationships between force and motion using simple machines including pulleys and levers.
	7.6B demonstrate that an object will remain at rest or move at a constant speed and in a straight line if it is not being subjected to an unbalanced force.
In the Drivers Seat	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	7.3B draw inferences based on data related to promotional materials for products and services.
	7.4A collect, analyze and record information to explain a phenomenon using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, timing devices, magnets and compasses.
	7.4B collect and analyze information to recognize patterns such as rates of change.
Energy Challenge Game	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	7.3B draw inferences based on data related to promotional materials for products and services.
	7.8B identify that radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis.
Energy Action Programs-Science Fair Projects	7.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.
	7.2B collect data by observing and measuring.
	7.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence.
	7.2D communicate valid conclusions.
	7.2E construct graphs, tables, maps and charts using tool including computers to organize, examine and evaluate data.

Energy and Society Activities
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Case Study: The Sacramento Shade Tree Program	7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	7.2D communicate valid conclusions.
	7.4A collect, analyze and record information to explain a phenomenon using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, timing devices, magnets and compasses.
Case Study: The Wind-up Radio	7.3D evaluate the impact of research on scientific thought, society, and the environment.

Energy and Society- Music
8th Grade TEKS

Music	TEKS
It Is the Energy, It Is the Sun,	8.7B recognize that waves are generated and can travel through different media.
The Rock and Roll of Photosynthesis	8.6B identify feedback mechanisms that maintain equilibrium of systems such as body temperature, turgor pressure, and chemical reactions.
	8.6B identify feedback mechanisms that maintain equilibrium of systems such as body temperature, turgor pressure, and chemical reactions.
Water Cycle,	8.10B describe interactions among solar, weather, and ocean systems.
	8.12B relate the role of oceans to climatic changes.
	8.12C predict the results of modifying the Earth's nitrogen, water, and carbon cycles.
Ecosystem	8.6C describe interactions within ecosystems.
	8.12B relate the role of oceans to climatic changes.
Energy	8.6C describe interactions within ecosystems.
	8.8A describe the structure and parts of an atom.
	8.8B identify the properties of an atom including mass and electrical charge.
	8.10A illustrate interactions between matter and energy including specific heat.
Energy & Me, Energia y Yo	8.10A illustrate interactions between matter and energy including specific heat.
Energy Now, Energy Then	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	8.14C describe how human activities have modified soil, water and air quality
What, What Is....	8.9D identify that physical and chemical properties influence the development and application of everyday materials such as cooking surfaces, insulation, adhesives and plastics.
Resources	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
On the Move	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	8.14C describe how human activities have modified soil, water and air quality
Reduce, Reuse, Recycle Engine Oil	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	8.14C describe how human activities have modified soil, water and air quality
Our Changing World.	8.12C predict the results of modifying the Earth's nitrogen, water, and carbon cycles.
We Can Save Energy	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	8.14C describe how human activities have modified soil, water and air quality
Yummy, Yummy	8.6B identify feedback mechanisms that maintain equilibrium of systems such as body temperature, turgor pressure, and chemical reactions.
	8.6C describe interactions within ecosystems.

Energy and Society Activities
8th Grade TEKS

Activities	TEKS
Energy Detectives	8.2D communicate valid conclusion.
	8.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, water test kits, and timing devices.
	8.10A illustrate interactions between matter and energy including specific heat.
May the Source Be With You	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	8.12C predict the results of modifying the Earth's nitrogen, water, and carbon cycles.
	8.14C describe how human activities have modified soil, water and air quality
Energy Chains	8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.
	8.2D communicate valid conclusion.
	8.2E construct graphs, tables, maps and charts using tools including computers to organize, examine and evaluate data.
	8.4B extrapolate from collected information to make predictions.
What Powers the Move?	8.3B draw inferences based on data related to promotional materials for products and services.
	8.5A identify a design problem and propose a solution.
	8.5 B design and test a model to solve the problem.
	8.5 C evaluate the model and make recommendations for improving the model.
	8.7A demonstrate how unbalanced forces cause changes in the speed or direction of an object's motion.
In the Drivers Seat	8.3B draw inferences based on data related to promotional materials for products and services.
	8.4B extrapolate from collected information to make predictions.
	8.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, water test kits, and timing devices.
Energy Challenge Game	8.2D communicate valid conclusion.
	8.2E construct graphs, tables, maps and charts using tools including computers to organize, examine and evaluate data.
	8.3B draw inferences based on data related to promotional materials for products and services.
Energy Action Programs-Science Fair Projects,	8.2B collect data by observing and measuring.
	8.2C organize, analyze, evaluate, make inferences, and predict trends from direct and indirect evidence.
	8.2D communicate valid conclusion.
	8.2E construct graphs, tables, maps and charts using tools including computers to organize, examine and evaluate data.

Energy and Society Activities
8th Grade TEKS

Case Study: The Sacramento Shade Tree Program,	8.2D communicate valid conclusion.
	8.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, water test kits, and timing devices.
Case Study: The Wind-up Radio	8.3D evaluate the impact of research on scientific thought, society, and the environment.

**5th Grade TEKS
Energy and Society Activities and Music**

TEKS Correlation	Activities and Music
5.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.	What Powers the Move, In the Drivers Seat, Energy Challenge Game, Case Study: The Sacramento Shade Tree Program, Music: Energy Now, Energy Then, Resources, Reduce, Reuse, Recycle Engine Oil, We Can Save Energy
5.2A plan and implement descriptive and simple experimental investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology.	Energy Action Programs-Science Fair Projects
5.2B collect information by observing and measuring	Energy Action Programs-Science Fair Projects
5.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence	Energy Detectives, Energy Action Programs-Science Fair Projects
5.2D communicate valid conclusions.	Case Study: The Sacramento Shade Tree Program
5.2E construct simple graphs, tables, maps and charts using tools including computers to organize, examine and evaluate information	Energy Detectives, Energy Action Programs-Science Fair Projects
5.3B draw inferences based on information related to promotional materials for products and services.	What Powers the Move? In the Drivers Seat, Energy Challenge Game
5.3C represent the natural world using models and identify their limitations.	What Powers the Move?
5.3D evaluate the impact of research on scientific thought, society, and the environment.	Case Study: The Wind-up Radio
5.4A collect and analyze information using tools including calculators, microscopes, cameras, sound recorders, computers, hand lenses, rulers, thermometers, compasses, balances, hot plates, metersticks, timing devices, magnets, collecting nets, and safety goggles.	In the Drivers Seat, Case Study: The Sacramento Shade Tree Program
5.5A describe some cycles, structures, and processes that are found in a simple system.	Ecosystem, Music: The rock and Roll of Photosynthesis, Water Cycle, Ecosystem, Energy, On the Move, Our Changing World, Yummy, Yummy
5.5B describe some interactions that occur in a simple system.	Music: The Rock and Roll of Photosynthesis, Water Cycle, Energy, On the Move, Our Changing World, Yummy, Yummy
5.6B identify the significance of the water, carbon, and nitrogen cycles.	Music: The Rock and Roll of Photosynthesis, Water Cycle, Our Changing World
5.7A classify matter based on its physical properties including magnetism, physical state and ability to conduct or insulate heat, electricity, and sound.	Music: What, What Is....
5.8A differentiate among forms of energy including light, heat, electrical, and solar energy.	Energy Detectives, Energy Chains, Energy Challenge Game, Music-It is the Energy, It is the Sun, Energy & Me, Energia y Yo
5.8C demonstrate that electricity can flow in a circuit and can produce heat, light, sound, and magnetic effects.	Energy Detectives, Energy Chains, Case Study: The Wind-up Radio, Energy Now, Energy Then
5.8D verify that vibrating an object can produce sound.	Energy Detectives
5.9A compare the adaptive characteristics of species that improve their ability to survive and reproduce in an ecosystem.	Yummy, Yummy

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Energy and Society Activities and Music

5.9C predict some adaptive characteristics required for survival and reproduction by an organism in an ecosystem.	Ecosystem
5.11C identify past events that led to the formation of the Earth's renewable, non-renewable and inexhaustible resources.	May the Source Be With You, Music: What, What Is..., Resources
5.12B describe processes responsible for the formation of coal, oil, gas, and minerals.	May the Source Be With You

**6th Grade TEKS
Energy and Society Activities and Music**

TEKS	Activity or Music
6.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.	In the Drivers Seat, Energy Challenge Game, Case Study: The Sacramento Shade Tree Program, Music: Energy Now, Energy Then, Resources, On the Move, Reduce, Reuse, Recycle Engine Oil, We Can Save Energy
6.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.	Energy Action Programs-Science Projects
6.2B collect data by observing and measuring.	Energy Action Programs-Science Projects
6.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence	Energy Detective, Energy Action Programs-Science Projects
6.2 D communicate valid conclusions.	Energy Detectives, Energy Action Programs-Science Projects, Case Study: The Sacramento Shade Tree Program
6.2E construct graphs, tables, maps and charts using tool including computers to organize, examine and evaluate data.	Energy Action Programs-Science Projects
6.3B draw inferences based on data related to promotional materials for products and services.	What Powers the Move? In the Drivers Seat, Energy Challenge Game, Music: Reduce, Reuse, Recycle Engine Oil, We Can Save Energy
6.3D evaluate the impact of research on scientific thought, society, and the environment.	Case Study: the Wind-up Radio
6.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes.	In the Drivers Seat, Case Study: The Sacramento Shade Tree Program
6.4B identify patterns in collected information using percent, average, range, and frequency.	In the Drivers Seat
6.5B describe how the properties of a system are different from the properties of its parts.	Our Changing World
6.7A demonstrate that new substances can be made when two or more substances are chemically combined and compare the properties of the new substances to the original substances.	Music: What, What Is...
6.7B classify substances by their physical and chemical properties	Music: What, What Is...
6.8A define matter and energy;	Energy Detectives, Music: It Is the Energy, It Is the Sun, Energy
6.8B explain and illustrate the interactions between matter and energy in the water cycle and in the decay of biomass such as in a compost bin.	Energy Challenge Game, Music: It Is the Energy, It Is the Sun, Water Cycle, Ecosystem, Energy
6.9A identify energy transformations occurring during the production of energy for human use such as electrical energy to heat energy or heat energy to electrical energy.	Energy Detectives, Energy Chains, Energy Challenge Game, Music: It Is the Energy, It Is the Sun, The Rock and Roll of Photosynthesis, Energy, Energy & Me, Energia y Yo

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Energy and Society Activities and Music

6.9B compare methods used for transforming energy in devices such as water heaters, cooling systems, or hydroelectric and wind power plants.	Energy Chains, Energy Challenge Game,
6.9C research and describe energy types from their source to their use and determine if the type is renewable, non-renewable, or inexhaustible.	May the Source Be With You, What Powers the Move? Music: It Is the Energy, It Is the Sun, What, What Is... Resources
6.10A differentiate between structure and function	Music: Yummy, Yummy
6.10B determine that all organisms are composed of cells that carry on functions to sustain life.	Music: The Rock and Roll of Photosynthesis, Yummy, Yummy
6.12A. identify responses in organisms to internal stimuli such as hunger or thirst.	Music: Ecosystem
6.12B identify responses in organisms to external stimuli such as the presence or absence of heat or light.	Music: Ecosystem
6.12C identify components of an ecosystem to which organisms may respond.	Music: Ecosystem
6.14C describe components of the atmosphere, including oxygen, nitrogen and water vapor and identify the role of atmospheric movement in weather change.	Water Cycle, Music: Our Changing World

**7th Grade TEKS
Energy and Society Activities and Music**

TEKS	Activities and Music
7.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.	In the Drivers Seat, Energy Challenge Game, Case Study: The Sacramento Shade Tree Program, Music: Energy Now, Energy Then, Resources, On the Move, Reduce, Reuse, Recycle Engine Oil, We Can Save Energy
7.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.	Energy Action Programs-Science Fair Projects,
7.2B collect data by observing and measuring.	Energy Action Programs-Science Fair Projects,
7.2C analyze and interpret information to construct reasonable explanations from direct and indirect evidence.	Energy Action Programs-Science Fair Projects,
7.2D communicate valid conclusion.	Energy Chains, Energy Action Programs-Science Fair Projects, Case Study: The Sacramento Shade Tree Program,
7.2E construct graphs, tables, maps and charts using tools including computers to organize, examine and evaluate data.	Energy Chains, Energy Action Programs-Science Fair Projects,
7.3B draw inferences based on data related to promotional materials for products and services.	What Powers the Move? In the Drivers Seat, Energy Challenge Game, Music: We Can Save Energy
7.3D evaluate the impact of research on scientific thought, society, and the environment.	Case Study: The Wind-up Radio
7.4A collect, analyze and record information to explain a phenomenon using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, timing devices, magnets and compasses.	In the Drivers Seat, Case Study: The Sacramento Shade Tree Program,
7.4B collect and analyze information to recognize patterns such as rates of change.	Energy Chains, In the Drivers Seat,
7.6A demonstrate basic relationships between force and motion using simple machines including pulleys and levers.	What Powers the Move?
7.6B demonstrate that an object will remain at rest or move at a constant speed and in a straight line if it is not being subjected to an unbalanced force.	What Powers the Move?
7.6C relate forces to basic processes in living organisms including the flow of blood and the emergence of seedlings.	Music: Energy
7.8A illustrate examples of potential and kinetic energy in everyday life such as objects at rest, movement of geologic faults, and falling water.	Energy Detective, Music: Energy & Me, Energia y Yo
7.8B identify that radiant energy from the Sun is transferred into chemical energy through the process of photosynthesis.	May the Source Be With You, Energy Challenge Game, Music: It Is the Energy, It Is the Sun, The Rock and Roll of Photosynthesis, Yummy, Yummy
7.9B describe how organisms maintain stable internal conditions while living in changing external environments.	Music: Ecosystem, Energy, Yummy, Yummy
7.11A analyze changes in organisms such as a fever or vomiting that may result from internal stimuli.	Music: Yummy, Yummy

7th Grade TEKS
Energy and Society Activities and Music

7.11B identify responses in organisms to external stimuli found in the environment such as the presence or absence of light.	Music: Ecosystem, Yummy, Yummy
7.12A identify components of an ecosystem.	Music: Water Cycle, Ecosystem
7.12B observe and describe how organisms including producers, consumers, and decomposers live together in an environment and use existing resources.	Music: Ecosystem
7.12C describe how different environments support different varieties of organisms.	Music: Ecosystem
7.14B draw inferences based on data related to promotional materials for products and services.	Music: Reduce, Reuse, Recycle Engine Oil
7.14C make inferences and draw conclusions about effects of human activity on Earth's renewable, non-renewable, and inexhaustible resources.	Music: What, What Is, Our Changing World

**8th Grade TEKS
Energy and Society Activities and Music**

TEKS	Activities and Music
8.1B make wise choices in the use and conservation of resources and the disposal or recycling of materials.	In the Drivers Seat, Energy Challenge Game, Case Study: The Sacramento Shade Tree Program, Music: Energy Now, Energy Then, Resources, On the Move, Reduce, Reuse, Recycle Engine Oil, We Can Save Energy
8.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.	Energy Action Programs-Science Fair Projects,
8.2B collect data by observing and measuring.	Energy Action Programs-Science Fair Projects,
8.2C organize, analyze, evaluate, make inferences, and predict trends from direct and indirect evidence.	Energy Action Programs-Science Fair Projects,
8.2D communicate valid conclusion.	Energy Detectives, Energy Chains, Energy Challenge Game, Energy Action Programs-Science Fair Projects, Case Study: The Sacramento Shade Tree Program,
8.2E construct graphs, tables, maps and charts using tools including computers to organize, examine and evaluate data.	Energy Chains, Energy Challenge Game, Energy Action Programs-Science Fair Projects,
8.3B draw inferences based on data related to promotional materials for products and services.	What Powers the Move? In the Drivers Seat, Energy Challenge Game, Music: We Can Save Energy
8.3D evaluate the impact of research on scientific thought, society, and the environment.	Case Study: The Wind-up Radio
8.4A collect, analyze and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers and computer probes, water test kits, and timing devices.	Energy Detectives, In the Drivers Seat, Case Study: The Sacramento Shade Tree Program,
8.4B extrapolate from collected information to make predictions.	Energy Chains, In the Drivers Seat,
8.5A identify a design problem and propose a solution.	What Powers the Move?
8.5 B design and test a model to solve the problem.	What Powers the Move?
8.5 C evaluate the model and make recommendations for improving the model.	What Powers the Move?
8.6B identify feedback mechanisms that maintain equilibrium of systems such as body temperature, turgor pressure, and chemical reactions.	Music: The Rock and Roll of Photosynthesis, Yummy, Yummy
8.6C describe interactions within ecosystems.	Music: Ecosystem, Energy, Yummy, Yummy
8.7A demonstrate how unbalanced forces cause changes in the speed or direction of an object's motion.	What Powers the Move?
8.7B recognize that waves are generated and can travel through different media.	Music: It Is the Energy, It Is the Sun,
8.8A describe the structure and parts of an atom.	Music: Energy
8.8B identify the properties of an atom including mass and electrical charge.	Music: Energy
8.9D identify that physical and chemical properties influence the development and application of everyday materials such as cooking surfaces, insulation, adhesives and plastics.	Music: What, What Is....

**8th Grade TEKS
Energy and Society Activities and Music**

8.10A illustrate interactions between matter and energy including specific heat.	Energy Detective, Music: Energy, Energy & Me, Energia y Yo
8.10B describe interactions among solar, weather, and ocean systems.	Music: Water Cycle,
8.12B relate the role of oceans to climatic changes.	Music: Water Cycle, Ecosystem
8.12C predict the results of modifying the Earth's nitrogen, water, and carbon cycles.	May the Source Be With You, Music: Water Cycle, Our Changing World.
8.14C describe how human activities have modified soil, water and air quality	May the Source Be With You, Music: Energy Now, Energy Then, On the Move, Reduce, Reuse, Recycle Engine Oil, We Can Save Energy