Weather and Climate

DIGITAL GAMES

Weather and weather patterns	NGSS.K.ESS2.D
Making observations & gathering data about weather and climate	NGSS.K.ETS1.A
Environmental change	NGSS.K.ESS2.E
Natural resources	NGSS.K.ESS3.A
Severe weather	NGSS.K.ESS3.B

KIT-REQUIRED GAME

Weather and climate	NGSS.K.ESS

Interdependent Relationships in Ecosystems

DIGITAL GAMES

Human impact	NGSS.K.ESS3.C
Engineering problems	NGSS.K.ETS1.A
Effects of sunlight	NGSS.K.ETS1.B
Ecological solutions	NGSS.K.ETS1.B

KIT-REQUIRED GAME

Plants and animals in their ecosystems	NGSS.K.LS
	NGSS.K.LS1.C
	NGSS.K.ESS2.E
	NGSS.K.ESS3.A
	NGSS.K.ESS3.C
	NGSS.K.ETS1.B
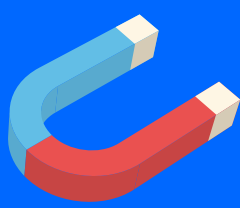
Forces and Interactions

DIGITAL GAMES

Matter and energy in organisms	NGSS.K.LS1.C
Forces and motion	NGSS.K.PS2.A
When objects collide	NGSS.K.PS2.B
Energy and forces	NGSS.K.PS3.C

KIT-REQUIRED GAME

Pushing and pulling	NGSS.K.PS

VIEW ADDITIONAL RELATED GAMES

Space Systems

DIGITAL GAMES
The universe — NGSS.1.ESS1.A
The solar system's effect on Earth — NGSS.1.ESS1.B

KIT-REQUIRED GAME
The solar system — NGSS.1.ESS1

Structure, Function, and Information Processing

DIGITAL GAMES
Parts of organisms — NGSS.1.LS1.A
Growth and development of organisms — NGSS.1.LS1.B
Function of parts of organisms — NGSS.1.LS1.D
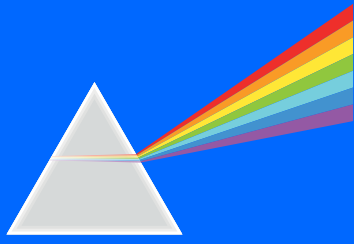Inheritance of traits in organisms — NGSS.1.LS3.A
Variation of traits in organisms — NGSS.1.LS3.B

KIT-REQUIRED GAME
Structure and function — NGSS.1.LS1

Wave Properties

DIGITAL GAMES
Sound waves — NGSS.1.PS4.A
How light travels — NGSS.1.PS4.B
Using sound and light in communication — NGSS.1.PS4.C

KIT-REQUIRED GAME
Light and sound — NGSS.1.PS4

VIEW ADDITIONAL RELATED GAMES

Earth's Systems

DIGITAL GAMES
The changing earth — NGSS.2.ESS1.C
Effects of wind and water on Earth — NGSS.2.ESS2.A
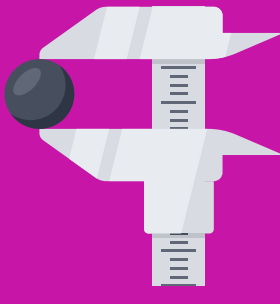Plate tectonics — NGSS.2.ESS2.B
Effects and functions of water on Earth — NGSS.2.ESS2.C

KIT-REQUIRED GAME
Earth's systems: processes that shape the earth — NGSS.2.ESS

Engineering Design

DIGITAL GAMES
Asking questions and identifying problems — NGSS.2.ETS1.A
Developing possible solutions — NGSS.2.ETS1.B
Designing ecological solutions — NGSS.2.ETS1.B
Comparing and testing designs — NGSS.2.ETS1.C

KIT-REQUIRED GAME
Engineering design — NGSS.2.ETS

Interdependent Relationships in Ecosystems

DIGITAL GAMES
Plants in their ecosystems — NGSS.2.LS2.A
Biodiversity within an ecosystem — NGSS.2.LS4.D

KIT-REQUIRED GAME
Interdependent relationships in ecosystems — NGSS.2.LS

Structure and Properties of Matter

DIGITAL GAMES
Structure and properties of matter — NGSS.2.PS1.A
Heating and cooling as chemical reactions — NGSS.2.PS1.B

KIT-REQUIRED GAME
Structure and properties of matter — NGSS.2.PS

VIEW ADDITIONAL RELATED GAMES

Weather and Climate

DIGITAL GAMES

Weather and climate patterns	NGSS.3.ESS2.D
How humans address natural hazards	NGSS.3.ESS3.B

KIT-REQUIRED GAME

Weather and climate	NGSS.3.ESS

Interdependent Relationships in Ecosystems

DIGITAL GAMES

Social interactions and group behaviors in ecosystems	NGSS.3.LS2.D
Fossils	NGSS.3.LS4.A
Extinction	NGSS.3.LS4.A
Natural selection	NGSS.3.LS4.B
Adaptation in organisms	NGSS.3.LS4.C
Organisms and their habitats	NGSS.3.LS4.D
Effects of environmental changes on organisms	NGSS.3.LS2.C

KIT-REQUIRED GAME

Environmental impacts on organisms	NGSS.3.LS

Inheritance and Variation of Traits

DIGITAL GAMES

Reproduction as part of a life cycle	NGSS.3.LS1.B
Inheritance	NGSS.3.LS3.A
Variation of traits due to inheritance and development	NGSS.3.LS3.B

KIT-REQUIRED GAME

Inheritance of traits	NGSS.3.LS
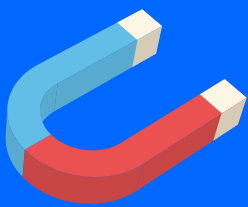
Forces and Interactions

DIGITAL GAMES

Forces of motion	NGSS.3.PS2
Behavior of objects when acted upon by an outside force	NGSS.3.PS2.A
Electric and magnetic forces	NGSS.3.PS2.B

KIT-REQUIRED GAME

Forces and interactions on and between objects	NGSS.3.PS

VIEW ADDITIONAL RELATED GAMES

Earth's Systems

DIGITAL GAMES

|	
Fossils and geology	NGSS.4.ESS1.C
The effects of wind and water on Earth	NGSS.4.ESS2.A
The formation of mountains and volcanoes as a result of plate tectonics	NGSS.4.ESS2.B
Physical characteristics of living things within a region/ecosystem	NGSS.4.ESS2.E
Energy derived from natural resources	NGSS.4.ESS3.A
Natural hazards that result from Earth's systems	NGSS.4.ESS3.B

KIT-REQUIRED GAME

Earth's systems	NGSS.4.ESS
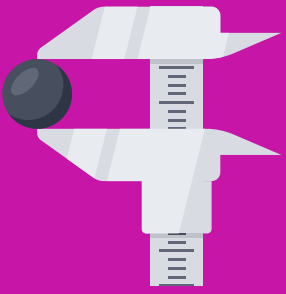
Engineering Design

DIGITAL GAMES

Energy and ecological solutions	NGSS.4.ETS1.A
Designing solutions for engineering problems due to Earth's systems	NGSS.4.ETS1.B
Determining solutions and solving problems	NGSS.4.ETS1.C
Internal and external structures and their functions	NGSS.4.LS1.A
Sense receptors and their functions in animals	NGSS.4.LS1.D

KIT-REQUIRED GAME

Structure, function, and information processing	NGSS.4.LS1

Matter and Energy in Organisms and Ecosystems

DIGITAL GAMES

Transfer of energy	NGSS.4.PS3.A
Objects in motion	NGSS.4.PS3.A
The presence of energy in objects	NGSS.4.PS3.B
Energy transfer through electricity	NGSS.4.PS3.B
Energy transfer through the collision of objects	NGSS.4.PS3.C
Energy transfer through chemical reactions	NGSS.4.PS3.D

KIT-REQUIRED GAME

What is energy?	NGSS.4.PS

Structure and Properties of Matter

DIGITAL GAMES

Amplitude and wavelength	NGSS.4.PS4.A
Waves as regular patterns of motion (oceanic)	NGSS.4.PS4.A
Reflection of light	NGSS.4.PS4.B
Measuring waves with technology	NGSS.4.PS4.C

KIT-REQUIRED GAME

Waves	NGSS.4.PS4

VIEW ADDITIONAL RELATED GAMES

Earth's Systems

DIGITAL GAMES

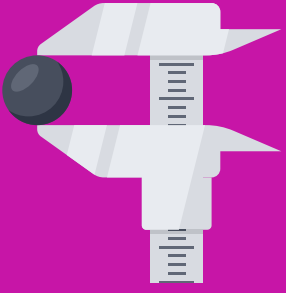|	
Cycles in the environment	NGSS.5.LS2.B
The sun as a star	NGSS.5.ESS1.A
The sun's effect on Earth	NGSS.5.ESS1.B
Major Earth systems	NGSS.5.ESS2.A
Human effect on Earth's systems	NGSS.5.ESS3.C

KIT-REQUIRED GAMES

The solar system	NGSS.5.ESS
Composition of Earth	NGSS.5.ESS

Engineering Design

DIGITAL GAMES

Identifying problems and possible solutions (considering constraints and criteria for success)	NGSS.5.ETS1.A
Developing and conducting tests	NGSS.5.ETS1.B
Optimizing solutions from results	NGSS.5.ETS1.C

KIT-REQUIRED GAME

Engineering design	NGSS.5.ETS

Matter and Energy in Organisms and Ecosystems

DIGITAL GAMES

The energy cycle (sun, plants, food)	NGSS.5.LS1.C
Composers and decomposers in ecosystems	NGSS.5.LS2.A

KIT-REQUIRED GAME

Sun and energy	NGSS.5.LS

Structure and Properties of Matter

DIGITAL GAMES

The structure of matter	NGSS.5.PS1.A
Measuring matter to identify materials	NGSS.5.PS1.A
Chemical reactions and their effect on matter	NGSS.5.PS1.B
Gravitational force	NGSS.5.PS2.B
Solar energy and its effect on plant matter	NGSS.5.PS3.D
Water on Earth	NGSS.ESS2.C

KIT-REQUIRED GAME

Structure and properties of matter	NGSS.5.PS

VIEW ADDITIONAL RELATED GAMES

SCIENCE / Physical Science

Chemical Reactions

DIGITAL GAMES
Liquids, solids and gases — NGSS.MS.PS1.A
Substances and their properties — NGSS.MS.PS1.A
Chemical properties of matter — NGSS.MS.PS1.A

KIT-REQUIRED GAME
Chemical reactions — NGSS.MS.PS1

Structure and Properties of Matter

DIGITAL GAMES
Atoms and chemical reactions upon them — NGSS.MS.PS1.B
How matter changes as a result of chemical reactions — NGSS.MS.PS1.B

KIT-REQUIRED GAME
Structure and properties of matter — NGSS.MS.PS1

Forces and Interactions

DIGITAL GAMES
Newton's third law — NGSS.MS.PS2.A
Electric, magnetic, and gravitational forces — NGSS.MS.PS2.B

KIT-REQUIRED GAME
Forces and interaction — NGSS.MS.PS2

Energy

DIGITAL GAMES
Potential and kinetic energy — NGSS.MS.PS3.A
Heat as energy — NGSS.MS.PS3.A
Conservation and transfer of energy — NGSS.MS.PS3.B
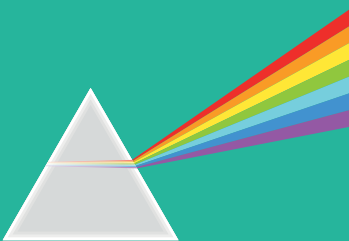Transfer of energy due to interactions between objects — NGSS.MS.PS3.C
Chemical processes of cellular respiration — NGSS.MS.PS3.D

KIT-REQUIRED GAME
Energy — NGSS.MS.PS3

Wave Properties

DIGITAL GAMES
Waves as repeating patterns (sound) — NGSS.MS.PS4.A
How light travels — NGSS.MS.PS4.B
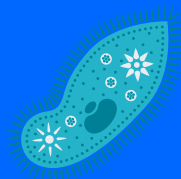Information technologies and instrumentation — NGSS.MS.PS4.C

KIT-REQUIRED GAME
Waves and electromagnetic radiation — NGSS.MS.PS4

VIEW ADDITIONAL RELATED GAMES

SCIENCE / Life Science

Growth, Development, and Reproduction of Organisms

DIGITAL GAMES
Reproduction in various organisms — NGSS.MS.LS1.B
Food and energy cycles and their effects on organisms — NGSS.MS.LS1.C

KIT-REQUIRED GAME
Growth, development, and reproduction of organisms — NGSS.MS.LS3

Structure, Function, and Information Processing

DIGITAL GAMES
Cells and cell structure — NGSS.MS.LS1.A
Electromagnetic, mechanical and chemical inputs and their effects on the human brain — NGSS.MS.LS1.D

KIT-REQUIRED GAME
Structure, function, and information processing — NGSS.MS.LS1

Natural Selection and Adaptations

DIGITAL GAMES
Inheritance of traits in organisms — NGSS.MS.LS3.A
Variation of traits due to genetics (including mutations) — NGSS.MS.LS3.B
Fossils as evidence of natural selection — NGSS.MS.LS4.A
Traits that lead to natural selection — NGSS.MS.LS4.B
Adaptation and its role in natural selection — NGSS.MS.LS4.C

KIT-REQUIRED GAME
Natural selection and adaptations — NGSS.MS.LS4.A
NGSS.MS.LS4.B
NGSS.MS.LS4.C

Matter and Energy in Organisms and Ecosystems

DIGITAL GAMES
Energy cycle in ecosystems (producers, consumers and decomposers) — NGSS.MS.LS2.B
Dynamic nature of ecosystems — NGSS.MS.LS2.C

KIT-REQUIRED GAME
Matter and energy in organisms and ecosystems — NGSS.MS.LS1
NGSS.MS.LS2

Interdependent Relationships in Ecosystems

DIGITAL GAME
Biodiversity and its effects on humans — NGSS.MS.LS4.D
Biodiversity as a measure of an ecosystem's health — NGSS.MS.LS2.C
The importance of predators in an ecosystem — NGSS.MS.LS2.A
Interdependent relationships within ecosystems — NGSS.MS.LS2.A

KIT-REQUIRED GAME
Interdependent relationships in ecosystems — NGSS.MS.LS

VIEW ADDITIONAL RELATED GAMES

Earth and Space Systems

DIGITAL GAMES
The universe and Earth's solar system — NGSS.MS.ESS1
Geologic evidence for Earth's history — NGSS.MS.ESS1.C
The interaction of Earth's systems over time — NGSS.MS.ESS2.A

KIT-REQUIRED GAME
Earth's history through geology — NGSS.MS.ESS2

History of Earth

DIGITAL GAMES
Energy cycles and their effect on earth — NGSS.MS.ESS2.A
Plate tectonics and large-scale system interactions — NGSS.MS.ESS2.B

KIT-REQUIRED GAME
Earth's materials and systems — NGSS.MS.ESS2

Human Impacts

DIGITAL GAMES
Determining problems and possible solutions considering constraints and criteria — NGSS.MS.ETS1.A

Developing possible solutions (ecosystems) — NGSS.MS.ETS1.B
Developing and testing solutions — NGSS.MS.ETS1.B
Testing possible solutions considering constraints and criteria — NGSS.MS.ETS1.B

The iterative process in testing solutions — NGSS.MS.ETS1.C
Human reliance on natural resources — NGSS.MS.ESS3.A

KIT-REQUIRED GAME
Human impacts on the earth — NGSS.MS.ESS3

Weather and Climate

DIGITAL GAMES
Water and Earth's surface processes — NGSS.MS.ESS2.C
Movement of air and water and their effect on climate — NGSS.MS.ESS2.C
The movement of water — NGSS.MS.ESS2.C
Predicting weather based on oceanic and atmospheric patterns — NGSS.MS.ESS2.D

Forecasting natural hazards — NGSS.MS.ESS3.B
Human activities and their effects on the biosphere — NGSS.MS.ESS3.C
Climate change due to human activities — NGSS.MS.ESS3.D

KIT-REQUIRED GAME
Weather and climate — NGSS.MS.ESS2
NGSS.MS.ESS2.C
NGSS.MS.ESS2.D
NGSS.MS.ESS3.D

VIEW ADDITIONAL RELATED GAMES