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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Effects of Forces on Motion (Achieving)	Activity - Achieving	3-PS2-1, SEP3, PS2.A, PS2.B, CCC2	Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Effects of Forces on Motion (Emerging)	Activity - Emerging	3-PS2-1, SEP3, PS2.A, PS2.B, CCC2	Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Effects of Forces on Motion (Mini Assessment)	Mini Assessment	3-PS2-1, SEP3, PS2.A, PS2.B, CCC2	Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Playground Forces Part 1 (Grade 3 Assessment)	Assessment	3-PS2-1, SEP3, PS2.A, PS2.B, CCC2	Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Predicting Future Motion of Objects (Achieving)	Activity - Achieving	3-PS2-2, SEP3, PS2.A, CCC1	Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion	CCC1: Patterns	N/A
NGSS Grade 3	Predicting Future Motion of Objects (Emerging)	Activity - Emerging	3-PS2-2, SEP3, PS2.A, CCC1	Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion	CCC1: Patterns	N/A
NGSS Grade 3	Predicting Future Motion of Objects (Mini Assessment)	Mini Assessment	3-PS2-2, SEP3, PS2.A, CCC1	Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion	CCC1: Patterns	N/A
NGSS Grade 3	Playground Forces Part 2 (Grade 3 Assessment)	Assessment	3-PS2-2, SEP3, PS2.A, CCC1	Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	SEP3: Planning and Carrying Out Investigations	PS2.A: Forces and Motion	CCC1: Patterns	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Electric and Magnetic Interactions (Achieving)	Activity - Achieving	3-PS2-3, SEP1, PS2.B, CCC2	Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Electric and Magnetic Interactions (Emerging)	Activity - Emerging	3-PS2-3, SEP1, PS2.B, CCC2	Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Electric and Magnetic Interactions (Mini Assessment)	Mini Assessment	3-PS2-3, SEP1, PS2.B, CCC2	Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Classroom Cleanup Part 1 (Grade 3 Assessment)	Assessment	3-PS2-3, SEP1, PS2.B, CCC2	Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 3	Solving Problems with Magnets (Achieving)	Activity - Achieving	3-PS2-4, SEP1, PS2.B	Define a simple design problem that can be solved by applying scientific ideas about magnets.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	N/A	N/A
NGSS Grade 3	Solving Problems with Magnets (Emerging)	Activity - Emerging	3-PS2-4, SEP1, PS2.B	Define a simple design problem that can be solved by applying scientific ideas about magnets.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	N/A	N/A
NGSS Grade 3	Solving Problems with Magnets (Mini Assessment)	Mini Assessment	3-PS2-4, SEP1, PS2.B	Define a simple design problem that can be solved by applying scientific ideas about magnets.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	N/A	N/A
NGSS Grade 3	Classroom Cleanup Part 2 (Grade 3 Assessment)	Assessment	3-PS2-4, SEP1, PS2.B	Define a simple design problem that can be solved by applying scientific ideas about magnets.	SEP1: Asking Questions and Defining Problems	PS2.B: Types of Interactions	N/A	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Modeling Life Cycles (Achieving)	Activity - Achieving	3-LS1-1, SEP2, LS1.B, CCC1	Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.	SEP2: Developing and Using Models	LS1.B: Growth and Development of Organisms	CCC1: Patterns	N/A
NGSS Grade 3	Modeling Life Cycles (Emerging)	Activity - Emerging	3-LS1-1, SEP2, LS1.B, CCC1	Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.	SEP2: Developing and Using Models	LS1.B: Growth and Development of Organisms	CCC1: Patterns	N/A
NGSS Grade 3	Modeling Life Cycles (Mini Assessment)	Mini Assessment	3-LS1-1, SEP2, LS1.B, CCC1	Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.	SEP2: Developing and Using Models	LS1.B: Growth and Development of Organisms	CCC1: Patterns	N/A
NGSS Grade 3	The White-Spotted Pufferfish Part 1 (Grade 3 Assessment)	Assessment	3-LS1-1, SEP2, LS1.B, CCC1	Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.	SEP2: Developing and Using Models	LS1.B: Growth and Development of Organisms	CCC1: Patterns	N/A
NGSS Grade 3	Animal Groups (Achieving)	Activity - Achieving	3-LS2-1, SEP6, LS2.D, CCC2	Construct an argument that some animals form groups that help members survive.	SEP6: Engaging in Argument from Evidence	LS2.D: Social Interactions and Group Behavior	CCC2: Cause and Effect	N/A
NGSS Grade 3	Animal Groups (Emerging)	Activity - Emerging	3-LS2-1, SEP6, LS2.D, CCC2	Construct an argument that some animals form groups that help members survive.	SEP6: Engaging in Argument from Evidence	LS2.D: Social Interactions and Group Behavior	CCC2: Cause and Effect	N/A
NGSS Grade 3	Animal Groups (Mini Assessment)	Mini Assessment	3-LS2-1, SEP6, LS2.D, CCC2	Construct an argument that some animals form groups that help members survive.	SEP6: Engaging in Argument from Evidence	LS2.D: Social Interactions and Group Behavior	CCC2: Cause and Effect	N/A
NGSS Grade 3	Animals in Antarctica (Grade 3 Assessment)	Assessment	3-LS2-1, SEP6, LS2.D, CCC2	Construct an argument that some animals form groups that help members survive.	SEP6: Engaging in Argument from Evidence	LS2.D: Social Interactions and Group Behavior	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Variation in Inherited Traits (Achieving)	Activity - Achieving	3-LS3-1, SEP4, LS3.A, LS3.B, CCC1	Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.	SEP4: Analyzing and Interpreting Data	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC1: Patterns	N/A
NGSS Grade 3	Variation in Inherited Traits (Emerging)	Activity - Emerging	3-LS3-1, SEP4, LS3.A, LS3.B, CCC1	Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.	SEP4: Analyzing and Interpreting Data	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC1: Patterns	N/A
NGSS Grade 3	Variation in Inherited Traits (Mini Assessment)	Mini Assessment	3-LS3-1, SEP4, LS3.A, LS3.B, CCC1	Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.	SEP4: Analyzing and Interpreting Data	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC1: Patterns	N/A
NGSS Grade 3	Surviving the Arctic Cold Part 1 (Grade 3 Assessment)	Assessment	3-LS3-1, SEP4, LS3.A, LS3.B, CCC1	Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.	SEP4: Analyzing and Interpreting Data	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC1: Patterns	N/A
NGSS Grade 3	Traits Influenced by the Environment (Achieving)	Activity - Achieving	3-LS3-2, SEP6, LS3.A, LS3.B, CCC2	Use evidence to support the explanation that traits can be influenced by the environment.	SEP6: Engaging in Argument from Evidence	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC2: Cause and Effect	N/A
NGSS Grade 3	Traits Influenced by the Environment (Emerging)	Activity - Emerging	3-LS3-2, SEP6, LS3.A, LS3.B, CCC2	Use evidence to support the explanation that traits can be influenced by the environment.	SEP6: Engaging in Argument from Evidence	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Traits Influenced by the Environment (Mini Assessment)	Mini Assessment	3-LS3-2, SEP6, LS3.A, LS3.B, CCC2	Use evidence to support the explanation that traits can be influenced by the environment.	SEP6: Engaging in Argument from Evidence	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC2: Cause and Effect	N/A
NGSS Grade 3	Surviving the Arctic Cold Part 2 (Grade 3 Assessment)	Assessment	3-LS3-2, SEP6, LS3.A, LS3.B, CCC2	Use evidence to support the explanation that traits can be influenced by the environment.	SEP6: Engaging in Argument from Evidence	LS3.A: Inheritance of Traits LS3.B: Variation of Traits	CCC2: Cause and Effect	N/A
NGSS Grade 3	Analyzing and Interpreting Fossil Evidence (Achieving)	Activity - Achieving	3-LS4-1, SEP4, LS4.A CCC3	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.	SEP4: Analyzing and Interpreting Data	LS4.A: Evidence of Common Ancestry and Diversity	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 3	Analyzing and Interpreting Fossil Evidence (Emerging)	Activity - Emerging	3-LS4-1, SEP4, LS4.A CCC3	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.	SEP4: Analyzing and Interpreting Data	LS4.A: Evidence of Common Ancestry and Diversity	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 3	Analyzing and Interpreting Fossil Evidence (Mini Assessment)	Mini Assessment	3-LS4-1, SEP4, LS4.A CCC3	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.	SEP4: Analyzing and Interpreting Data	LS4.A: Evidence of Common Ancestry and Diversity	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 3	Fossil Lake (Grade 3 Assessment)	Assessment	3-LS4-1, SEP4, LS4.A CCC3	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.	SEP4: Analyzing and Interpreting Data	LS4.A: Evidence of Common Ancestry and Diversity	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 3	Advantages of Varying Characteristics (Achieving)	Activity - Achieving	3-LS4-2, SEP6, LS4.B, CCC2	Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.	SEP6: Constructing Explanations and Designing Solutions	LS4.B: Natural Selection	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Advantages of Varying Characteristics (Emerging)	Activity - Emerging	3-LS4-2, SEP6, LS4.B, CCC2	Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.	SEP6: Constructing Explanations and Designing Solutions	LS4.B: Natural Selection	CCC2: Cause and Effect	N/A
NGSS Grade 3	Advantages of Varying Characteristics (Mini Assessment)	Mini Assessment	3-LS4-2, SEP6, LS4.B, CCC2	Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.	SEP6: Constructing Explanations and Designing Solutions	LS4.B: Natural Selection	CCC2: Cause and Effect	N/A
NGSS Grade 3	The White-Spotted Pufferfish Part 2 (Grade 3 Assessment)	Assessment	3-LS4-2, SEP6, LS4.B, CCC2	Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.	SEP6: Constructing Explanations and Designing Solutions	LS4.B: Natural Selection	CCC2: Cause and Effect	N/A
NGSS Grade 3	Habitat, Adaptation and Survival (Achieving)	Activity - Achieving	3-LS4-3, SEP7, LS4.C, CCC2	Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.	SEP7: Engaging in Argument from Evidence	LS4.C: Adaptation	CCC2: Cause and Effect	N/A
NGSS Grade 3	Habitat, Adaptation and Survival (Emerging)	Activity - Emerging	3-LS4-3, SEP7, LS4.C, CCC2	Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.	SEP7: Engaging in Argument from Evidence	LS4.C: Adaptation	CCC2: Cause and Effect	N/A
NGSS Grade 3	Habitat, Adaptation, and Survival (Mini Assessment)	Mini Assessment	3-LS4-3, SEP7, LS4.C, CCC2	Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.	SEP7: Engaging in Argument from Evidence	LS4.C: Adaptation	CCC2: Cause and Effect	N/A
NGSS Grade 3	Florida Everglades Part 1 (Grade 3 Assessment)	Assessment	3-LS4-3, SEP7, LS4.C, CCC2	Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.	SEP7: Engaging in Argument from Evidence	LS4.C: Adaptation	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 3	Solving Problems Caused by Environmental Change (Achieving)	Activity - Achieving	3-LS4-4, CCC4, LS2.C, LS4.D, SEP7	Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	SEP7: Engaging in Argument from Evidence	LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS4.D: Biodiversity and Humans	CCC4: Systems and System Models	N/A
NGSS Grade 3	Solving Problems Caused by Environmental Change (Emerging)	Activity - Emerging	3-LS4-4, CCC4, LS2.C, LS4.D, SEP7	Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	SEP7: Engaging in Argument from Evidence	LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS4.D: Biodiversity and Humans	CCC4: Systems and System Models	N/A
NGSS Grade 3	Solving Problems Caused by Environmental Change (Mini Assessment)	Mini Assessment	3-LS4-4, CCC4, LS2.C, LS4.D, SEP7	Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	SEP7: Engaging in Argument from Evidence	LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS4.D: Biodiversity and Humans	CCC4: Systems and System Models	N/A
NGSS Grade 3	Florida Everglades Part 2 (Grade 3 Assessment)	Assessment	3-LS4-4, CCC4, LS2.C, LS4.D, SEP7	Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	SEP7: Engaging in Argument from Evidence	LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS4.D: Biodiversity and Humans	CCC4: Systems and System Models	N/A
NGSS Grade 3	Patterns in Weather Conditions (Achieving)	Activity - Achieving	3-ESS2-1, CCC1, ESS2.D, SEP4	Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	SEP4: Analyzing and Interpreting Data	ESS2.D: Weather and Climate	CCC1: Patterns	N/A

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NGSS Grade 3	Patterns in Weather Conditions (Emerging)	Activity - Emerging	3-ESS2-1, CCC1, ESS2.D, SEP4	Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	SEP4: Analyzing and Interpreting Data	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Patterns in Weather Conditions (Mini Assessment)	Mini Assessment	3-ESS2-1, CCC1, ESS2.D, SEP4	Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	SEP4: Analyzing and Interpreting Data	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Tracking Weather Conditions and Events Part 1 (Grade 3 Assessment)	Assessment	3-ESS2-1, CCC1, ESS2.D, SEP4	Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	SEP4: Analyzing and Interpreting Data	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Climates Around the World (Achieving)	Activity - Achieving	3-ESS2-2, CCC1, ESS2.D, SEP8	Obtain and combine information to describe climates in different regions of the world.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Climates Around the World (Emerging)	Activity - Emerging	3-ESS2-2, CCC1, ESS2.D, SEP8	Obtain and combine information to describe climates in different regions of the world.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Climates Around the World (Mini Assessment)	Mini Assessment	3-ESS2-2, CCC1, ESS2.D, SEP8	Obtain and combine information to describe climates in different regions of the world.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Tracking Weather Conditions and Events Part 2 (Grade 3 Assessment)	Assessment	3-ESS2-2, CCC1, ESS2.D, SEP8	Obtain and combine information to describe climates in different regions of the world.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS2.D: Weather and Climate	CCC1: Patterns	N/A
NGSS Grade 3	Protection from Hazardous Weather (Achieving)	Activity - Achieving	3-ESS3-1, CCC2, ESS3.B, SEP7	Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.	SEP7: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	N/A

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NGSS Grade 3	Protection from Hazardous Weather (Emerging)	Activity - Emerging	3-ESS3-1, CCC2, ESS3.B, SEP7	Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.	SEP7: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	N/A
NGSS Grade 3	Protection from Hazardous Weather (Mini Assessment)	Mini Assessment	3-ESS3-1, CCC2, ESS3.B, SEP7	Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.	SEP7: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	N/A
NGSS Grade 3	Tracking Weather Conditions and Events Part 3 (Grade 3 Assessment)	Assessment	3-ESS3-1, CCC2, ESS3.B, SEP7	Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.	SEP7: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	N/A
NGSS Grade 3	Grade 3 Science Course Assessment	Course Assessment	3-	N/A	N/A	N/A	N/A	N/A
NGSS Grade 4	Relating Speed and Energy of Objects (Achieving)	Activity - Achieving	4-PS3-1, CCC5, PS3.A, SEP6	Use evidence to construct an explanation relating the speed of an object to the energy of that object.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy	CCC5: Energy and Matter	N/A
NGSS Grade 4	Relating Speed and Energy of Objects (Emerging)	Activity - Emerging	4-PS3-1, CCC5, PS3.A, SEP6	Use evidence to construct an explanation relating the speed of an object to the energy of that object.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy	CCC5: Energy and Matter	N/A
NGSS Grade 4	Relating Speed and Energy of Objects (Mini Assessment)	Mini Assessment	4-PS3-1, CCC5, PS3.A, SEP6	Use evidence to construct an explanation relating the speed of an object to the energy of that object.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy	CCC5: Energy and Matter	N/A
NGSS Grade 4	Bumper Cars Part 1 (Grade 4 Assessment)	Assessment	4-PS3-1, CCC5, PS3.A, SEP6	Use evidence to construct an explanation relating the speed of an object to the energy of that object.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy	CCC5: Energy and Matter	N/A

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NGSS Grade 4	Observing Energy Transfer (Achieving)	Activity - Achieving	4-PS3-2, CCC5, PS3.A, PS3.B, SEP3	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	SEP3: Planning and Carrying Out Investigations	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer	CCC5: Energy and Matter	N/A
NGSS Grade 4	Observing Energy Transfer (Emerging)	Activity - Emerging	4-PS3-2, CCC5, PS3.A, PS3.B, SEP3	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	SEP3: Planning and Carrying Out Investigations	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer	CCC5: Energy and Matter	N/A
NGSS Grade 4	Observing Energy Transfer (Mini Assessment)	Mini Assessment	4-PS3-2, CCC5, PS3.A, PS3.B, SEP3	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	SEP3: Planning and Carrying Out Investigations	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer	CCC5: Energy and Matter	N/A
NGSS Grade 4	Go With the Flow Part 1 (Grade 4 Assessment)	Assessment	4-PS3-2, CCC5, PS3.A, PS3.B, SEP3	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	SEP3: Planning and Carrying Out Investigations	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer	CCC5: Energy and Matter	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Predicting Outcomes of Collisions (Achieving)	Activity - Achieving	4-PS3-3, SEP6, PS3.A, PS3.B, PS3.C, CCC5	Ask questions and predict outcomes about the changes in energy that occur when objects collide.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer PS3.C: Relationship Between Energy and Forces	CCC5: Energy and Matter	N/A
NGSS Grade 4	Predicting Outcomes of Collisions (Emerging)	Activity - Emerging	4-PS3-3, SEP6, PS3.A, PS3.B, PS3.C, CCC5	Ask questions and predict outcomes about the changes in energy that occur when objects collide.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer PS3.C: Relationship Between Energy and Forces	CCC5: Energy and Matter	N/A
NGSS Grade 4	Predicting Outcomes of Collisions (Mini Assessment)	Mini Assessment	4-PS3-3, SEP6, PS3.A, PS3.B, PS3.C, CCC5	Ask questions and predict outcomes about the changes in energy that occur when objects collide.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer PS3.C: Relationship Between Energy and Forces	CCC5: Energy and Matter	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Bumper Cars Part 2 (Grade 4 Assessment)	Assessment	4-PS3-3, SEP6, PS3.A, PS3.B, PS3.C, CCC5	Ask questions and predict outcomes about the changes in energy that occur when objects collide.	SEP6: Engaging in Argument from Evidence	PS3.A: Definitions of Energy PS3.B: Conservation of Energy and Energy Transfer PS3.C: Relationship Between Energy and Forces	CCC5: Energy and Matter	N/A
NGSS Grade 4	Designing a Device to Convert Energy (Achieving)	Activity - Achieving	4-PS3-4, 3-5-ETS1-1, SEP6, PS3.B, PS3.D, ETS1.A, CCC5	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.	SEP6: Engaging in Argument from Evidence	PS3.B: Conservation of Energy and Energy Transfer PS3.D: Energy in Chemical Processes and Everyday Life	CCC5: Energy and Matter	ETS1.A: Defining Engineering Problems
NGSS Grade 4	Designing a Device to Convert Energy (Emerging)	Activity - Emerging	4-PS3-4, 3-5-ETS1-1, SEP6, PS3.B, PS3.D, ETS1.A, CCC5	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.	SEP6: Engaging in Argument from Evidence	PS3.B: Conservation of Energy and Energy Transfer PS3.D: Energy in Chemical Processes and Everyday Life	CCC5: Energy and Matter	ETS1.A: Defining Engineering Problems
NGSS Grade 4	Designing a Device to Convert Energy (Mini Assessment)	Mini Assessment	4-PS3-4, 3-5-ETS1-1, SEP6, PS3.B, PS3.D, ETS1.A, CCC5	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.	SEP6: Engaging in Argument from Evidence	PS3.B: Conservation of Energy and Energy Transfer PS3.D: Energy in Chemical Processes and Everyday Life	CCC5: Energy and Matter	ETS1.A: Defining Engineering Problems

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Go With the Flow Part 2 (Grade 4 Assessment)	Assessment	4-PS3-4, 3-5-ETS1-1, SEP6, PS3.B, PS3.D, ETS1.A, CCC5	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.	SEP6: Engaging in Argument from Evidence	PS3.B: Conservation of Energy and Energy Transfer PS3.D: Energy in Chemical Processes and Everyday Life	CCC5: Energy and Matter	ETS1.A: Defining Engineering Problems
NGSS Grade 4	Modeling Wave Patterns (Achieving)	Activity - Achieving	4-PS4-1, CCC1, PS4.A, SEP2	Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.	SEP2: Developing and Using Models	PS4.A: Wave Properties	CCC1: Patterns	N/A
NGSS Grade 4	Modeling Wave Patterns (Emerging)	Activity - Emerging	4-PS4-1, CCC1, PS4.A, SEP2	Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.	SEP2: Developing and Using Models	PS4.A: Wave Properties	CCC1: Patterns	N/A
NGSS Grade 4	Modeling Wave Patterns (Mini Assessment)	Mini Assessment	4-PS4-1, CCC1, PS4.A, SEP2	Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.	SEP2: Developing and Using Models	PS4.A: Wave Properties	CCC1: Patterns	N/A
NGSS Grade 4	Seeing Sound (Grade 4 Assessment)	Assessment	4-PS4-1, CCC1, PS4.A, SEP2	Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.	SEP2: Developing and Using Models	PS4.A: Wave Properties	CCC1: Patterns	N/A
NGSS Grade 4	Modeling Reflection of Light (Achieving)	Activity - Achieving	4-PS4-2, CCC2, PS4.B, SEP2	Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.	SEP2: Developing and Using Models	PS4.B: Electromagnetic Radiation	CCC2: Cause and Effect	N/A
NGSS Grade 4	Modeling Reflection of Light (Emerging)	Activity - Emerging	4-PS4-2, CCC2, PS4.B, SEP2	Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.	SEP2: Developing and Using Models	PS4.B: Electromagnetic Radiation	CCC2: Cause and Effect	N/A
NGSS Grade 4	Modeling Reflection of Light (Mini Assessment)	Mini Assessment	4-PS4-2, CCC2, PS4.B, SEP2	Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.	SEP2: Developing and Using Models	PS4.B: Electromagnetic Radiation	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	A Camera Obscura (Grade 4 Assessment)	Assessment	4-PS4-2, CCC2, PS4.B, SEP2	Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.	SEP2: Developing and Using Models	PS4.B: Electromagnetic Radiation	CCC2: Cause and Effect	N/A
NGSS Grade 4	Transferring Information with Patterns (Achieving)	Activity - Achieving	4-PS4-3, 3-5-ETS1-3, CCC1, ETS1.C, PS4.C, SEP6	Generate and compare multiple solutions that use patterns to transfer information.	SEP6: Engaging in Argument from Evidence	PS4.C: Information Technologies and Instrumentation	CCC1: Patterns	ETS1.C: Optimizing the Design Solution
NGSS Grade 4	Transferring Information with Patterns (Emerging)	Activity - Emerging	4-PS4-3, 3-5-ETS1-3, CCC1, ETS1.C, PS4.C, SEP6	Generate and compare multiple solutions that use patterns to transfer information.	SEP6: Engaging in Argument from Evidence	PS4.C: Information Technologies and Instrumentation	CCC1: Patterns	ETS1.C: Optimizing the Design Solution
NGSS Grade 4	Transferring Information with Patterns (Mini Assessment)	Mini Assessment	4-PS4-3, 3-5-ETS1-3, CCC1, ETS1.C, PS4.C, SEP6	Generate and compare multiple solutions that use patterns to transfer information.	SEP6: Engaging in Argument from Evidence	PS4.C: Information Technologies and Instrumentation	CCC1: Patterns	ETS1.C: Optimizing the Design Solution
NGSS Grade 4	Dolphin Echolocation Part 1 (Grade 4 Assessment)	Assessment	4-PS4-3, 3-5-ETS1-3, CCC1, ETS1.C, PS4.C, SEP6	Generate and compare multiple solutions that use patterns to transfer information.	SEP6: Engaging in Argument from Evidence	PS4.C: Information Technologies and Instrumentation	CCC1: Patterns	ETS1.C: Optimizing the Design Solution
NGSS Grade 4	Internal and External Structures (Achieving)	Activity - Achieving	4-LS1-1, CCC4, LS1.A, SEP7	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.	SEP7: Engaging in Argument from Evidence	LS1.A: Structure and Function	CCC4: Systems and System Models	N/A
NGSS Grade 4	Internal and External Structures (Emerging)	Activity - Emerging	4-LS1-1, CCC4, LS1.A, SEP7	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.	SEP7: Engaging in Argument from Evidence	LS1.A: Structure and Function	CCC4: Systems and System Models	N/A
NGSS Grade 4	Internal and External Structures (Mini Assessment)	Mini Assessment	4-LS1-1, CCC4, LS1.A, SEP7	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.	SEP7: Engaging in Argument from Evidence	LS1.A: Structure and Function	CCC4: Systems and System Models	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Pollination (Grade 4 Assessment)	Assessment	4-LS1-1, CCC4, LS1.A, SEP7	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.	SEP7: Engaging in Argument from Evidence	LS1.A: Structure and Function	CCC4: Systems and System Models	N/A
NGSS Grade 4	Receiving, Processing, and Responding to Information (Achieving)	Activity - Achieving	4-LS1-2, CCC4, LS1.D, SEP2	Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.	SEP2: Developing and Using Models	LS1.D: Information Processing	CCC4: Systems and System Models	N/A
NGSS Grade 4	Receiving, Processing, and Responding to Information (Emerging)	Activity - Emerging	4-LS1-2, CCC4, LS1.D, SEP2	Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.	SEP2: Developing and Using Models	LS1.D: Information Processing	CCC4: Systems and System Models	N/A
NGSS Grade 4	Receiving, Processing, and Responding to Information (Mini Assessment)	Mini Assessment	4-LS1-2, CCC4, LS1.D, SEP2	Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.	SEP2: Developing and Using Models	LS1.D: Information Processing	CCC4: Systems and System Models	N/A
NGSS Grade 4	Dolphin Echolocation Part 2 (Grade 4 Assessment)	Assessment	4-LS1-2, CCC4, LS1.D, SEP2	Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.	SEP2: Developing and Using Models	LS1.D: Information Processing	CCC4: Systems and System Models	N/A
NGSS Grade 4	Using Patterns in Rocks and Fossils to Explain Changes in Landscape (Achieving)	Activity - Achieving	4-ESS1-1, CCC1, ESS1.C, SEP6	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.	SEP6: Engaging in Argument from Evidence	ESS1.C: The History of Planet Earth	CCC1: Patterns	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Using Patterns in Rocks and Fossils to Explain Changes in Landscape (Emerging)	Activity - Emerging	4-ESS1-1, CCC1, ESS1.C, SEP6	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.	SEP6: Engaging in Argument from Evidence	ESS1.C: The History of Planet Earth	CCC1: Patterns	N/A
NGSS Grade 4	Using Patterns in Rocks and Fossils to Explain Changes in Landscape (Mini Assessment)	Mini Assessment	4-ESS1-1, CCC1, ESS1.C, SEP6	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.	SEP6: Engaging in Argument from Evidence	ESS1.C: The History of Planet Earth	CCC1: Patterns	N/A
NGSS Grade 4	The Colorado Landscape Part 1 (Grade 4 Assessment)	Assessment	4-ESS1-1, CCC1, ESS1.C, SEP6	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.	SEP6: Engaging in Argument from Evidence	ESS1.C: The History of Planet Earth	CCC1: Patterns	N/A
NGSS Grade 4	Effects of Weathering & Erosion on Earth's Surface (Achieving)	Activity - Achieving	4-ESS2-1, CCC2, ESS2.A, ESS2.E, SEP3	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.	SEP3: Planning and Carrying Out Investigations	ESS2.A: Earth Materials and Systems ESS2.E: Biogeology	CCC2: Cause and Effect	N/A
NGSS Grade 4	Effects of Weathering & Erosion on Earth's Surface (Emerging)	Activity - Emerging	4-ESS2-1, CCC2, ESS2.A, ESS2.E, SEP3	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.	SEP3: Planning and Carrying Out Investigations	ESS2.A: Earth Materials and Systems ESS2.E: Biogeology	CCC2: Cause and Effect	N/A
NGSS Grade 4	Effects of Weathering and Erosion on Earth's Surface (Mini Assessment)	Mini Assessment	4-ESS2-1, CCC2, ESS2.A, ESS2.E, SEP3	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.	SEP3: Planning and Carrying Out Investigations	ESS2.A: Earth Materials and Systems ESS2.E: Biogeology	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Saharan Dust (Grade 4 Assessment)	Assessment	4-ESS2-1, CCC2, ESS2.A, ESS2.E, SEP3	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.	SEP3: Planning and Carrying Out Investigations	ESS2.A: Earth Materials and Systems ESS2.E: Biogeology	CCC2: Cause and Effect	N/A
NGSS Grade 4	Maps of Earth's Features (Achieving)	Activity - Achieving	4-ESS2-2, CCC1, ESS2.B, SEP4	Analyze and interpret data from maps to describe patterns of Earth's features.	SEP4: Analyzing and Interpreting Data	ESS2.B: Plate Tectonics and Large- Scale System Interactions	CCC1: Patterns	N/A
NGSS Grade 4	Maps of Earth's Features (Emerging)	Activity - Emerging	4-ESS2-2, CCC1, ESS2.B, SEP6	Analyze and interpret data from maps to describe patterns of Earth's features.	SEP4: Analyzing and Interpreting Data	ESS2.B: Plate Tectonics and Large- Scale System Interactions	CCC1: Patterns	N/A
NGSS Grade 4	Maps of Earth's Features (Mini Assessment)	Mini Assessment	4-ESS2-2, CCC1, ESS2.B, SEP6	Analyze and interpret data from maps to describe patterns of Earth's features.	SEP4: Analyzing and Interpreting Data	ESS2.B: Plate Tectonics and Large- Scale System Interactions	CCC1: Patterns	N/A
NGSS Grade 4	The Colorado Landscape Part 2 (Grade 4 Assessment)	Assessment	4-ESS2-2, CCC1, ESS2.B, SEP6	Analyze and interpret data from maps to describe patterns of Earth's features.	SEP4: Analyzing and Interpreting Data	ESS2.B: Plate Tectonics and Large- Scale System Interactions	CCC1: Patterns	N/A
NGSS Grade 4	Natural Resources, Energy, and the Environment (Achieving)	Activity - Achieving	4-ESS3-1, CCC2, ESS3.A, SEP8	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.A: Natural Resources	CCC2: Cause and Effect	N/A
NGSS Grade 4	Natural Resources, Energy, and the Environment (Emerging)	Activity - Emerging	4-ESS3-1, CCC2, ESS3.A, SEP8	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.A: Natural Resources	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 4	Natural Resources, Energy, and the Environment (Mini Assessment)	Mini Assessment	4-ESS3-1, CCC2, ESS3.A, SEP8	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.A: Natural Resources	CCC2: Cause and Effect	N/A
NGSS Grade 4	French Fry Fuel (Grade 4 Assessment)	Assessment	4-ESS3-1, CCC2, ESS3.A, SEP8	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.A: Natural Resources	CCC2: Cause and Effect	N/A
NGSS Grade 4	Reducing Impact of Earth Processes (Achieving)	Activity - Achieving	4-ESS3-2, 3-5-ETS1-2, 3-5-ETS1-3, CCC2, ESS3.B, ETS1.B, SEP6	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	SEP6: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	ETS1.B: Designing Solutions to Engineering Problems
NGSS Grade 4	Reducing Impact of Earth Processes (Emerging)	Activity - Emerging	4-ESS3-2, 3-5-ETS1-2, 3-5-ETS1-3, CCC2, ESS3.B, ETS1.B, SEP6	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	SEP6: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	ETS1.B: Designing Solutions to Engineering Problems
NGSS Grade 4	Reducing Impact of Earth Processes (Mini Assessment)	Mini Assessment	4-ESS3-2, 3-5-ETS1-2, 3-5-ETS1-3, CCC2, ESS3.B, ETS1.B, SEP6	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	SEP6: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	ETS1.B: Designing Solutions to Engineering Problems
NGSS Grade 4	Too Much Water (Grade 4 Assessment)	Assessment	4-ESS3-2, 3-5-ETS1-2, 3-5-ETS1-3, CCC2, ESS3.B, ETS1.B, SEP6	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	SEP6: Engaging in Argument from Evidence	ESS3.B: Natural Hazards	CCC2: Cause and Effect	ETS1.B: Designing Solutions to Engineering Problems
NGSS Grade 4	Grade 4 Science Course Assessment	Course Assessment	4-	N/A	N/A	N/A	N/A	N/A
NGSS Grade 5	Particles of Matter (Achieving)	Activity - Achieving	5-PS1-1, CCC3, PS1.A, SEP2	Develop a model to describe that matter is made of particles too small to be seen.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Particles of Matter (Emerging)	Activity - Emerging	5-PS1-1, CCC3, PS1.A, SEP2	Develop a model to describe that matter is made of particles too small to be seen.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Particles of Matter (Mini Assessment)	Mini Assessment	5-PS1-1, CCC3, PS1.A, SEP2	Develop a model to describe that matter is made of particles too small to be seen.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Where Did The Mass Come From? Part 1 (Grade 5 Assessment)	Assessment	5-PS1-1, CCC3, PS1.A, SEP2	Develop a model to describe that matter is made of particles too small to be seen.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Weight is Conserved (Achieving)	Activity - Achieving	5-PS1-2, CCC3, PS1.A, PS1.B, SEP5	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.	SEP5: Using Mathematics and Computational Thinking	PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Weight is Conserved (Emerging)	Activity - Emerging	5-PS1-2, CCC3, PS1.A, PS1.B, SEP5	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.	SEP5: Using Mathematics and Computational Thinking	PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Weight is Conserved (Mini Assessment)	Mini Assessment	5-PS1-2, CCC3, PS1.A, PS1.B, SEP5	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.	SEP5: Using Mathematics and Computational Thinking	PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions	CCC3: Scale, Proportion, and Quantity	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Slime Time Part 1 (Grade 5 Assessment)	Assessment	5-PS1-2, CCC3, PS1.A, PS1.B, SEP5	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.	SEP5: Using Mathematics and Computational Thinking	PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Using Properties to Identify Materials (Achieving)	Activity - Achieving	5-PS1-3, CCC3, PS1.A, SEP2	Make observations and measurements to identify materials based on their properties.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Using Properties to Identify Materials (Emerging)	Activity - Emerging	5-PS1-3, CCC3, PS1.A, SEP2	Make observations and measurements to identify materials based on their properties.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Using Properties to Identify Materials (Mini Assessment)	Mini Assessment	5-PS1-3, CCC3, PS1.A, SEP2	Make observations and measurements to identify materials based on their properties.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Slime Time Part 2 (Grade 5 Assessment)	Assessment	5-PS1-3, CCC3, PS1.A, SEP2	Make observations and measurements to identify materials based on their properties.	SEP2: Developing and Using Models	PS1.A: Structure and Properties of Matter	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Mixing and Forming New Substances (Achieving)	Activity - Achieving	5-PS1-4, CCC2, PS1.B, SEP3	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.	SEP3: Planning and Carrying Out Investigations	PS1.B: Chemical Reactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Mixing and Forming New Substances (Emerging)	Activity - Emerging	5-PS1-4, CCC2, PS1.B, SEP3	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.	SEP3: Planning and Carrying Out Investigations	PS1.B: Chemical Reactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Mixing and Forming New Substances (Mini Assessment)	Mini Assessment	5-PS1-4, CCC2, PS1.B, SEP3	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.	SEP3: Planning and Carrying Out Investigations	PS1.B: Chemical Reactions	CCC2: Cause and Effect	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Slime Time Part 3 (Grade 5 Assessment)	Assessment	5-PS1-4, CCC2, PS1.B, SEP3	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.	SEP3: Planning and Carrying Out Investigations	PS1.B: Chemical Reactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Gravity Is Directed Down (Achieving)	Activity - Achieving	5-PS2-1, CCC2, PS2.B, SEP7	Support an argument that the gravitational force exerted by Earth on objects is directed down.	SEP7: Engaging in Argument from Evidence	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Gravity is Directed Down (Emerging)	Activity - Emerging	5-PS2-1, CCC2, PS2.B, SEP7	Support an argument that the gravitational force exerted by Earth on objects is directed down.	SEP7: Engaging in Argument from Evidence	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Gravity is Directed Down (Mini Assessment)	Mini Assessment	5-PS2-1, CCC2, PS2.B, SEP7	Support an argument that the gravitational force exerted by Earth on objects is directed down.	SEP7: Engaging in Argument from Evidence	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Paratroopers (Grade 5 Assessment)	Assessment	5-PS2-1, CCC2, PS2.B, SEP7	Support an argument that the gravitational force exerted by Earth on objects is directed down.	SEP7: Engaging in Argument from Evidence	PS2.B: Types of Interactions	CCC2: Cause and Effect	N/A
NGSS Grade 5	Energy from the Sun (Achieving)	Activity - Achieving	5-PS3-1, CCC5, LS1.C, PS3.D, SEP2	Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.	SEP2: Developing and Using Models	PS3.D: Energy in Chemical Processes and Everyday Life LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A
NGSS Grade 5	Energy from the Sun (Emerging)	Activity - Emerging	5-PS3-1, CCC5, LS1.C, PS3.D, SEP2	Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.	SEP2: Developing and Using Models	PS3.D: Energy in Chemical Processes and Everyday Life LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Energy from the Sun (Mini Assessment)	Mini Assessment	5-PS3-1, CCC5, LS1.C, PS3.D, SEP2	Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.	SEP2: Developing and Using Models	PS3.D: Energy in Chemical Processes and Everyday Life LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A
NGSS Grade 5	Ecosystems Part 1 (Grade 5 Assessment)	Assessment	5-PS3-1, CCC5, LS1.C, PS3.D, SEP2	Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.	SEP2: Developing and Using Models	PS3.D: Energy in Chemical Processes and Everyday Life LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A
NGSS Grade 5	Needs of Plants (Achieving)	Activity - Achieving	5-LS1-1, CCC5, LS1.C, SEP7	Support an argument that plants get the materials they need for growth chiefly from air and water.	SEP7: Engaging in Argument from Evidence	LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A
NGSS Grade 5	Needs of Plants (Emerging)	Activity - Emerging	5-LS1-1, CCC5, LS1.C, SEP7	Support an argument that plants get the materials they need for growth chiefly from air and water.	SEP7: Engaging in Argument from Evidence	LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A
NGSS Grade 5	Needs of Plants (Mini Assessment)	Mini Assessment	5-LS1-1, CCC5, LS1.C, SEP7	Support an argument that plants get the materials they need for growth chiefly from air and water.	SEP7: Engaging in Argument from Evidence	LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A
NGSS Grade 5	Where Did The Mass Come From? Part 2 (Grade 5 Assessment)	Assessment	5-LS1-1, CCC5, LS1.C, SEP7	Support an argument that plants get the materials they need for growth chiefly from air and water.	SEP7: Engaging in Argument from Evidence	LS1.C: Organization for Matter and Energy Flow in Organisms	CCC5: Energy and Matter	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Movement of Matter in the Environment (Achieving)	Activity - Achieving	5-LS2-1, CCC4, LS2.A, LS2.B, SEP2	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP2: Developing and Using Models	LS2.A: Interdependent Relationships in Ecosystems LS2.B: Cycles of Matter and Energy Transfer in Ecosystems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Movement of Matter in the Environment (Emerging)	Activity - Emerging	5-LS2-1, CCC4, LS2.A, LS2.B, SEP2	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP2: Developing and Using Models	LS2.A: Interdependent Relationships in Ecosystems LS2.B: Cycles of Matter and Energy Transfer in Ecosystems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Movement of Matter in the Environment (Mini Assessment)	Mini Assessment	5-LS2-1, CCC4, LS2.A, LS2.B, SEP2	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP2: Developing and Using Models	LS2.A: Interdependent Relationships in Ecosystems LS2.B: Cycles of Matter and Energy Transfer in Ecosystems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Ecosystems Part 2 (Grade 5 Assessment)	Assessment	5-LS2-1, CCC4, LS2.A, LS2.B, SEP2	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP2: Developing and Using Models	LS2.A: Interdependent Relationships in Ecosystems LS2.B: Cycles of Matter and Energy Transfer in Ecosystems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Apparent Brightness of Stars (Achieving)	Activity - Achieving	5-ESS1-1, CCC3, ESS1.A, SEP7	Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth.	SEP7: Engaging in Argument from Evidence	ESS1.A: The Universe and its Stars	CCC3: Scale, Proportion, and Quantity	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Apparent Brightness of Stars (Emerging)	Activity - Emerging	5-ESS1-1, CCC3, ESS1.A, SEP7	Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth.	SEP7: Engaging in Argument from Evidence	ESS1.A: The Universe and its Stars	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Apparent Brightness of Stars (Mini Assessment)	Mini Assessment	5-ESS1-1, CCC3, ESS1.A, SEP7	Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth.	SEP7: Engaging in Argument from Evidence	ESS1.A: The Universe and its Stars	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Lion in the Sky (Grade 5 Assessment)	Assessment	5-ESS1-1, CCC3, ESS1.A, SEP7	Support an argument that the apparent brightness of the sun and stars is due to their relative distances from the Earth.	SEP7: Engaging in Argument from Evidence	ESS1.A: The Universe and its Stars	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Representing Patterns of the Earth, Sun, and Stars (Achieving)	Activity - Achieving	5-ESS1-2, CCC1, ESS1.B, SEP4	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	SEP4: Analyzing and Interpreting Data	ESS1.B: Earth and the Solar System	CCC1: Patterns	N/A
NGSS Grade 5	Representing Patterns of the Earth, Sun, and Stars (Emerging)	Activity - Emerging	5-ESS1-2, CCC1, ESS1.B, SEP4	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	SEP4: Analyzing and Interpreting Data	ESS1.B: Earth and the Solar System	CCC1: Patterns	N/A
NGSS Grade 5	Representing Patterns of the Earth, Sun, and Stars (Mini Assessment)	Mini Assessment	5-ESS1-2, CCC1, ESS1.B, SEP4	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	SEP4: Analyzing and Interpreting Data	ESS1.B: Earth and the Solar System	CCC1: Patterns	N/A
NGSS Grade 5	Stars and the Earth (Grade 5 Assessment)	Assessment	5-ESS1-2, CCC1, ESS1.B, SEP4	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	SEP4: Analyzing and Interpreting Data	ESS1.B: Earth and the Solar System	CCC1: Patterns	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Interactions of Earth's Spheres (Achieving)	Activity - Achieving	5-ESS2-1, CCC4, ESS2.A, SEP2	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2: Developing and Using Models	ESS2.A: Earth Materials and Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Interactions of Earth's Spheres (Emerging)	Activity - Emerging	5-ESS2-1, CCC4, ESS2.A, SEP2	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2: Developing and Using Models	ESS2.A: Earth Materials and Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Interactions of Earth's Spheres (Mini Assessment)	Mini Assessment	5-ESS2-1, CCC4, ESS2.A, SEP2	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2: Developing and Using Models	ESS2.A: Earth Materials and Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Ecosystems Part 3 (Grade 5 Assessment)	Assessment	5-ESS2-1, CCC4, ESS2.A, SEP2	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2: Developing and Using Models	ESS2.A: Earth Materials and Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Water Sources on Earth (Achieving)	Activity - Achieving	5-ESS2-2, CCC3, ESS2.C, SEP5	Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	SEP5: Using Mathematics and Computational Thinking	ESS2.C: The Roles of Water in Earth's Surface Processes	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Water Sources on Earth (Emerging)	Activity - Emerging	5-ESS2-2, CCC3, ESS2.C, SEP5	Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	SEP5: Using Mathematics and Computational Thinking	ESS2.C: The Roles of Water in Earth's Surface Processes	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Water Sources on Earth (Mini Assessment)	Mini Assessment	5-ESS2-2, CCC3, ESS2.C, SEP5	Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	SEP5: Using Mathematics and Computational Thinking	ESS2.C: The Roles of Water in Earth's Surface Processes	CCC3: Scale, Proportion, and Quantity	N/A
NGSS Grade 5	Earth's Resources Part 1 (Grade 5 Assessment)	Assessment	5-ESS2-2, CCC3, ESS2.C, SEP5	Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	SEP5: Using Mathematics and Computational Thinking	ESS2.C: The Roles of Water in Earth's Surface Processes	CCC3: Scale, Proportion, and Quantity	N/A

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Product	Activity Title (Preview Link)	Activity Type	Activity Standards	Performance Expectation (Link)	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Engineering, Tech, & Applications of Science
NGSS Grade 5	Protect the Earth's Resources and Environment (Achieving)	Activity - Achieving	5-ESS3-1, CCC4, ESS3.C, SEP8	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.C: Human Impacts on Earth Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Protect the Earth's Resources and Environment (Emerging)	Activity - Emerging	5-ESS3-1, CCC4, ESS3.C, SEP8	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.C: Human Impacts on Earth Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Protect the Earth's Resources and Environment (Mini Assessment)	Mini Assessment	5-ESS3-1, CCC4, ESS3.C, SEP8	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.C: Human Impacts on Earth Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Earth's Resources Part 2 (Grade 5 Assessment)	Assessment	5-ESS3-1, CCC4, ESS3.C, SEP8	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	SEP8: Obtaining, Evaluating, and Communicating Information	ESS3.C: Human Impacts on Earth Systems	CCC4: Systems and System Models	N/A
NGSS Grade 5	Grade 5 Science Course Assessment	Course Assessment	5-	N/A	N/A	N/A	N/A	N/A
NGSS Grades 3-5	Grades 3-5 Science High Stakes Assessment	High Stakes Assessment	3-5	N/A	N/A	N/A	N/A	N/A