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|--------------------------|--------------|-----------------------|------------------------|-------------------------|----------------------------|----------------------------|------------------------|-------------------------|--------------------------|-----------------------|---------------------------|--------------------|-----------------------|----------------------|---------------------|
| Lower Primary (Year 1-2) | Curriculum | AC9S1U03 | AC9S1U03 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S1U02 | AC9S1U01 | AC9S1U01 | AC9S1U03 | AC9S1U02 | AC9S1U03 | AC9S2U03 | AC9S2U03 | |
| | Lesson Title | Dino Birthday Bash | Muddy Rhino | Farm Friends Road Trip | A Home for Baby Bird | Animal Hotel | Bad Weather Bunny | Flower Friends | Forest Play Day | Feeding Time | Park Picnic | Duck Crossing | Clean Machine | Roll or Fly | |
| | Curriculum | AC9S1U01 | AC9S1U02 | AC9S5U03 | AC9S2U02 | AC9S1U02 | AC9S1U02 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S2U02 | AC9S1U03 | AC9S1U03 | AC9S1U03 |
| | Lesson Title | Best of Nests | Dim Dance Party | Flower Families | Light Monster | What the Sun Sees | Sunshine Parade | Perfect Hiding Spot | Worms for Dinner | Dragon Care | Monster Kinder | Secret Celebration | Rocky Road Skateboard | Windy Valley | Car With Arms |
| | Curriculum | AC9S1U03 | AC9S2U03 | AC9S1U05 | AC9S1U05 | AC9S1U03 | AC9S2I01 | AC9S1U02 | AC9S1U02 | AC9S2U01 | AC9S2U01 | AC9S1U03 | AC9S1U03 | AC9S1U03 | |
| | Lesson Title | Kitty Greetings | Troll Under the Bridge | Sort It Out | Jungle Adventure | Beach Chicken | Fun Place Space | Beach House Builder | Bird's Eye View | Hide the Seeds | Animal Rescue Team | Spin Spectacular | Puck and Bot | Mini Mixer | |
| Upper Primary (Year 3-6) | Curriculum | AC9S3U01 | AC9S3U03 | AC9S3U01 | AC9S3U02 | AC9S3U01 | AC9S3U01 | AC9S3U01 | AC9S3U01 | AC9S4U03 | AC9S4U03 | AC9S4U02 | AC9S4U03 | AC9S4U03 | |
| | Lesson Title | From Egg to What | Protect Baby Elephant | Fossil Detective | Spot the Bug | Home at Last | Fire and Horns | Hungry, Hungry Lionfish | Sweet-Tooth Squirrel | Golfing Over the Edge | Teeny Tiny Home | Truck Rally | Legs for Fetch | Grabber Arm | |
| | Curriculum | AC9S4U03 | AC9S3U01 | AC9S4U01 | AC9S4U04 | AC9S4U03 | AC9S4U02 | AC9S4U02 | AC9S4U03 | AC9S2U02 | AC9S4U03 | AC9S4U04 | AC9S4U03 | AC9S4U03 | AC9S4U03 |
| | Lesson Title | Deep Down Underground | Plant Powers | Nature Party | Lemonade Shake | Ra-Ra-Rattlesnake! | Navigating the Unknown | Energy Racer | Feel the Beat | Crush the Core | Control the Roll | Disco Snail | Turning Towers | Ocean Disco | Bug Bot Race |
| | Curriculum | AC9S4U03 | AC9S4U01 | AC9S4U01 | AC9S5U04 | AC9S5H02 | AC9S5U02 | AC9S5U04 | AC9S5U03 | AC9S4U04 | AC9S6U01 | AC9S6U01 | AC9S6U01 | AC9S5U01 | |
| | Lesson Title | Down With Gravity | Sun Snack | Stink Squad | Desert Island Community | Twin Scoops | Slow-Down Race | Snacking Seagull | Wheel of Properties | Circle of Soil | Energy Chain | Critter Crossing | Hungry Machine | Life on a New Planet | |
| Secondary (Year 7-10) | Curriculum | AC9S7U04 | AC9S7U02 | AC9S7I04 | AC9S9U07 | AC9S7U02 | AC9S7U03 | AC9S10U02 | AC9S8H03 | AC9S7I04 | AC9S10U01 | AC9S7U02 | AC9S9U02 | AC9S8U02 | AC9S8U01 |
| | Lesson Title | Forest Showdown | Windy City | A Breath of Fresh Space | Save the Salmon | Building Space | Conceal the Meal | Population Pressure | Game of Goals | Trait Selector | Big Fish in a Little Pond | Ostrich Dance | Supercharged Plants | Cell City | More than a Nucleus |
| | Curriculum | AC9S8U01 | AC9S7U02 | AC9S8U05 | AC9S7U04 | AC9S9U01 | AC9S9U01 | AC9S8U05 | AC9S7U04 | AC9S7U02 | AC9S7U02 | AC9S7U01 | AC9S8U05 | AC9S8U05 | |
| | Lesson Title | Fish Food | Kinetic Kicker | Push Power | Rapid Reaction | Bee-ware | Spinning and Winning | Double the Push | Move the Matter | Bats on the Brink | Rivals and Allies | Loch Ness Express | Cow on the Roof | Chickens in Space | |
| | Curriculum | AC9S7U02 | AC9S8U05 | AC9S8U05 | AC9S8U03 | AC9S10U02 | AC9S10U02 | AC9S8H03 | AC9S8U05 | AC9S9U02 | AC9S7U05 | AC9S7U04 | AC9S8U05 | AC9S7U02 | |
| | Lesson Title | Operate in Colour | Up Top Robot | Shaking Signals | Frosty Fur and Frozen Feet | Aliens Alike and Not Quite | Food Festival Fix | Robotic Restaurant | Feathers, Fur and Family | Troll Stole My Soup | Hit It, Move It | Energy Booster | Blades and Barnacles | Polar Paws | |



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|--------------------------|--------------|---------------------|------------------------|------------------------|----------------------|------------------------|--------------------------|-------------------------|---------------------|-------------------|----------------------|------------------------------------|---------------------------------------|-------------------------------------|--------------------|
| Lower Primary (Year 1-2) | Curriculum | AC9S1U03 | AC9S1U03 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S1U02 | AC9S1U01 | AC9S1U01 | AC9S1U03 | AC9S1U02 | AC9S1U03 | AC9S2U03 | AC9S2U03 | |
| | Topic | Push and Pull | Push and Pull | Needs | Animals Habitat | Habitat Animals Needs | Weather Weather Forecast | Environment Pollinators | Environment Animals | Push and Pull | Shade Sunlight | Traffic Problem Solving | Problem Solving Implement Innovations | Transportation Engineering Design | |
| | Lesson Title | Dino Birthday Bash | Muddy Rhino | Farm Friends Road Trip | A Home for Baby Bird | Animal Hotel | Bad Weather Bunny | Flower Friends | Forest Play Day | Feeding Time | Park Picnic | Duck Crossing | Clean Machine | Roll or Fly | Dino Birthday Bash |
| | Curriculum | AC9S1U01 | AC9S1U02 | AC9S5U03 | AC9S2U02 | AC9S1U02 | AC9S1U02 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S2U02 | AC9S1U03 | AC9S1U03 | AC9S1U03 |
| | Topic | Survival Offspring | Light and Dark | Plants Traits | Communication | Sun Patterns | Sun Seasons | Biomimicry Camouflage | Animal Mimicry | Offspring Parents | Heredity Traits | Communication Sound | Problem Solving | Problem Solving Shapes | Testing Solutions |
| | Lesson Title | Best of Nests | Dim Dance Party | Flower Families | Light Monster | What the Sun Sees | Sunshine Parade | Perfect Hiding Spot | Worms for Dinner | Dragon Care | Monster Kinder | Secret Celebration | Rocky Road Skateboard | Windy Valley | Car With Arms |
| | Curriculum | AC9S1U03 | AC9S2U03 | AC9S1U05 | AC9S1U05 | AC9S1U03 | AC9S2I01 | AC9S1U02 | AC9S1U02 | AC9S2U01 | AC9S2U01 | AC9S1U03 | AC9S1U03 | AC9S1U03 | |
| | Topic | Greeting Properties | Properties Materials | Properties | Problem Solving | Problem Solving Shapes | Conservation of Matter | Erosion Problem Solving | Maps | Seeds Animals | Habitat Biodiversity | Problem Solving Solution Diversity | Solution Diversity Problem Solving | Problem Solving Comparing Solutions | |
| | Lesson Title | Kitty Greetings | Troll Under the Bridge | Sort It Out | Jungle Adventure | Beach Chicken | Fun Place Space | Beach House Builder | Bird's Eye View | Hide the Seeds | Animal Rescue Team | Spin Spectacular | Puck and Bot | Mini Mixer | |



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|--------------------------|--------------|-----------------------|-----------------------|-------------------------------|------------------------------|-----------------------|------------------------|---------------------------------------|----------------------|-----------------------|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|
| Upper Primary (Year 3-6) | Curriculum | AC9S3U01 | AC9S3U03 | AC9S3U01 | AC9S3U02 | AC9S3U01 | AC9S3U01 | AC9S3U01 | AC9S3U01 | AC9S4U03 | AC9S4U03 | AC9S4U02 | AC9S4U03 | AC9S4U03 | |
| | Topic | Life Cycle Animals | Survival Animals | Fossils | Camouflage Natural Selection | Habitat Adaptation | Heredity | Invasive Species Environmental Change | Forces Motion | Motion | Hazardous Weather Solution Design | Problem Solving Criteria | Solution Diversity Criteria | Problem Solving Environment | |
| | Lesson Title | From Egg to What | Protect Baby Elephant | Fossil Detective | Spot the Bug | Home at Last | Fire and Horns | Hungry, Hungry Lionfish | Sweet-Tooth Squirrel | Golfing Over the Edge | Teeny Tiny Home | Truck Rally | Legs for Fetch | Grabber Arm | |
| | Curriculum | AC9S4U03 | AC9S3U01 | AC9S4U01 | AC9S4U04 | AC9S4U03 | AC9S4U02 | AC9S4U02 | AC9S4U03 | AC9S2U02 | AC9S4U03 | AC9S4U04 | AC9S4U03 | AC9S4U03 | AC9S4U03 |
| | Topic | Fossils | Plants Animals | Environment Natural Resources | Earthquakes Natural Hazards | Survival Adaptation | Senses | Energy Speed | Energy Transfer | Energy Collision | Communication Solution Diversity | Potential and Kinetic Energy Conversion of Energy | Criteria Constraints | Solution Design Criteria | Fair Tests Variables |
| | Lesson Title | Deep Down Underground | Plant Powers | Nature Party | Lemonade Shake | Ra-Ra-Rattlesnake! | Navigating the Unknown | Energy Racer | Feel the Beat | Crush the Core | Control the Roll | Disco Snail | Turning Towers | Ocean Disco | Bug Bot Race |
| | Curriculum | AC9S4U03 | AC9S4U01 | AC9S4U01 | AC9S5U04 | AC9S5H02 | AC9S5U02 | AC9S5U04 | AC9S5U03 | AC9S4U04 | AC9S6U01 | AC9S6U01 | AC9S6U01 | AC9S5U01 | |
| | Topic | Gravity | Food Chain | Particles | Environment Resources | Environment Resources | Particles | Conservation of Matter | Properties | Matter Ecosystems | Food Chain Energy | Wildlife Criteria | Problem Solving Criteria | Fair Tests Prototypes | |
| | Lesson Title | Down With Gravity | Sun Snack | Stink Squad | Desert Island Community | Twin Scoops | Slow-Down Race | Snacking Seagull | Wheel of Properties | Circle of Soil | Energy Chain | Critter Crossing | Hungry Machine | Life on a New Planet | |



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|-----------------------|--------------|--------------------------------------|--------------------------------------|---|-----------------------------|----------------------------|----------------------|-----------------------------|-------------------------------|---------------------------------|---------------------------|-----------------------------|---------------------------------|-------------------|---------------------|
| Secondary (Year 7-10) | Curriculum | AC9S7U04 | AC9S7U02 | AC9S7I04 | AC9S9U07 | AC9S7U02 | AC9S7U03 | AC9S10U02 | AC9S8H03 | AC9S7I04 | AC9S10U01 | AC9S7U02 | AC9S9U02 | AC9S8U02 | AC9S8U01 |
| | Topic | Ecosystems | Severe Weather | Chemical Reaction Conservation of Mass | Human Impact Environment | Earth Space | Traits Survival | Resources Population | Iterative Testing | Traits | Environmental Factors | Animals Reproduction | Energy Photosynthesis | Cells | Cells |
| | Lesson Title | Forest Showdown | Windy City | A Breath of Fresh Space | Save the Salmon | Building Space | Conceal the Meal | Population Pressure | Game of Goals | Trait Selector | Big Fish in a Little Pond | Ostrich Dance | Supercharged Plants | Cell City | More than a Nucleus |
| | Curriculum | AC9S8U01 | AC9S7U02 | AC9S8U05 | AC9S7U04 | AC9S9U01 | AC9S9U01 | AC9S8U05 | AC9S7U04 | AC9S7U02 | AC9S7U02 | AC9S7U01 | AC9S8U05 | AC9S8U05 | |
| | Topic | Resources Population | Kinetic Energy Energy Transfer | Collision Newton's Third Law | Sense Brain | Animals Inputs | Kinetic Energy | Sum of Forces | Ecosystems Matter | Biodiversity Solution Design | Ecosystems Patterns | Criteria Solution Design | Criteria Solution Design | Ecosystems Energy | |
| | Lesson Title | Fish Food | Kinetic Kicker | Push Power | Rapid Reaction | Bee-ware | Spinning and Winning | Double the Push | Move the Matter | Bats on the Brink | Rivals and Allies | Loch Ness Express | Cow on the Roof | Chickens in Space | |
| | Curriculum | AC9S7U02 | AC9S8U05 | AC9S8U05 | AC9S8U03 | AC9S10U02 | AC9S10U02 | AC9S8H03 | AC9S8U05 | AC9S9U02 | AC9S7U05 | AC9S7U04 | AC9S8U05 | AC9S7U02 | |
| | Topic | Solution Design Iterative Testing | Solution Design Iterative Testing | Natural Disasters | Natural Selection Traits | Reproduction Offspring | Environmental Impact | Solution Design Criteria | Animal Behaviour Offspring | States of Matter | Forces Motion | Energy Energy Transfer | Biodiversity Solution Design | Traits Survival | |
| | Lesson Title | Operate in Colour | Up Top Robot | Shaking Signals | Frosty Fur and Frozen Feet | Aliens Alike and Not Quite | Food Festival Fix | Robotic Restaurant | Feathers, Fur and Family | Troll Stole My Soup | Hit It, Move It | Energy Booster | Blades and Barnacles | Polar Paws | |



Lower Primary (Year 1-2)

| Lesson Title | Dino Birthday Bash | Muddy Rhino | Farm Friends Road Trip | A Home for Baby Bird | Animal Hotel | Bad Weather Bunny | Flower Friends | Forest Play Day | Feeding Time | Park Picnic | Duck Crossing | Clean Machine | Roll or Fly |
|------------------------|--|--|---|---|---|---|---|---|--|---|--|--|--|
| Lesson Description | Students will investigate the effects of pushes and pulls on the motion of an object. | Students will design a solution to change the direction of a moving object with a push or a pull, and then test if it works as intended. | Students will build a model to describe what animals and plants need to survive. | Students will create a model to show how animals can change the environment to meet their needs. | Students will build a model to show the different needs of different animals. | Students will use the information from a weather forecast to prepare for severe weather. | Students will create a solution that reduces the impact of humans on other living things in the local environment. | Students will use a model to represent the relationship between the needs of animals and the places they live. | Students will conduct an investigation to compare the effects of different push strengths on the motion of an object. | Students will design and build a structure that will reduce the warming effect of the sunlight. | Students will define a simple problem and solve it by developing an object or tool. | Students will develop a model to illustrate how the shape of an object helps it function as needed to solve a given problem. | Students will analyse different objects designed to solve the same problem to compare strengths and weaknesses. |
| Curriculum | AC9S1U03 | AC9S1U03 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S1U02 | AC9S1U01 | AC9S1U01 | AC9S1U03 | AC9S1U02 | AC9S1U03 | AC9S2U03 | AC9S2U03 |
| Curriculum Description | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces. (Year 2) | Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces. (Year 2) |

Lower Primary (Year 1-2)

| Lesson Title | Best of Nests | Dim Dance Party | Flower Families | Light Monster | What the Sun Sees | Sunshine Parade | Perfect Hiding Spot | Worms for Dinner | Dragon Care | Monster Kinder | Secret Celebration | Rocky Road Skateboard | Windy Valley | Car With Arms |
|-------------------------------|---|---|---|--|---|---|---|---|---|---|--|--|--|---|
| Lesson Description | Students will build a model to show how parent birds help their offspring survive. | Students will make observations to explain that objects in darkness can be seen only when illuminated. | Students will make observations to construct an account that young plants are like, but not exactly like, their parents. | Students will build a device that uses light to solve the problem of communicating over a distance. | Students will use a model to describe patterns of the sun that can be predicted. | Students will use a model to explain the relationship between the amount of daylight and the time of year. | Students will design a solution to a human problem by mimicking how animals use their external parts to help them survive. | Students will design a solution to a human problem by mimicking how animals use their external parts to help them meet their needs. | Students will use a model to show patterns in behaviour of parents and offspring that help offspring survive. | Students will use observations to explain that offspring are like, but not exactly like, their parents. | Students will use materials to build a device that uses sound to solve the problem of communicating over a distance. | Students will define a problem that can be solved through the development of an improved object and test their solution. | Students will develop a physical model to illustrate how the shape of a house impacts its function. | Students will analyse data from tests of two objects designed to solve the same problem to compare strengths and weaknesses of the two designs. |
| Curriculum | AC9S1U01 | AC9S1U02 | AC9S5U03 | AC9S2U02 | AC9S1U02 | AC9S1U02 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S1U01 | AC9S2U02 | AC9S1U03 | AC9S1U03 | AC9S1U03 |
| Curriculum Description | AC9S1U01: Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Identify sources of light, recognise that light travels in a straight path and describe how shadows are formed and light can be reflected and refracted. (Year 5) | Investigate the effect of light and sound on objects and explore how these forms of energy are transferred. (Year 2) | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs. (Year 1) | Investigate the effect of light and sound on objects and explore how these forms of energy are transferred. (Year 2) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) |

Lower Primary (Year 1-2)

| Lesson Title | Kitty Greetings | Troll Under the Bridge | Sort It Out | Jungle Adventure | Beach Chicken | Fun Place Space | Beach House Builder | Bird's Eye View | Hide the Seeds | Animal Rescue Team | Spin Spectacular | Puck and Bot | Mini Mixer |
|------------------------|--|--|---|---|--|---|---|---|---|---|---|--|---|
| Lesson Description | Students will investigate the properties of different materials. | Students will test different materials used to build a bridge and analyse how the properties of the materials impact the effectiveness of the bridge. | Students will describe and classify materials according to their observable properties. | Students will explain how an object made from a set of pieces can be disassembled and made into a new object. | Students will develop a physical model to illustrate how the shape of an object helps it function. | Students will make observations to describe how an object made of a small set of pieces can be disassembled and made into a new object. | Students will compare solutions designed to slow or prevent water from changing the land. | Students will develop a model to represent the shapes and kinds of land and bodies of water in an area. | Students will use a model to describe how an animal can function to disperse seeds. | Students will create a model to describe the diversity of life in a single habitat. | Students will ask questions and make observations about a situation people want to change to define a simple problem that can be solved by developing an improved object. | Students will develop a simple model to illustrate how the shape of an object functions to solve a given problem. | Students will analyse tests from two objects designed to solve the same problem by comparing strengths and weaknesses of how each performs. |
| Curriculum | AC9S1U03 | AC9S2U03 | AC9S1U05 | AC9S1U05 | AC9S1U03 | AC9S2I01 | AC9S1U02 | AC9S1U02 | AC9S2U01 | AC9S2U01 | AC9S1U03 | AC9S1U03 | AC9S1U03 |
| Curriculum Description | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces. (Year 2) | Everyday materials can be physically changed or combined with other materials in a variety of ways for particular purposes. (1-2) | Everyday materials can be physically changed or combined with other materials in a variety of ways for particular purposes. (1-2) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces. | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Describe daily and seasonal changes in the environment and explore how these changes affect everyday life. (Year 1) | Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces. | Recognise that materials can be changed physically without changing their material composition and explore the effect of different actions on materials including bending, twisting, stretching and breaking into smaller pieces. | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) | Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape. (Year 1) |

Upper Primary (Year 3-6)

| Lesson Title | From Egg to What | Protect Baby Elephant | Fossil Detective | Spot the Bug | Home at Last | Fire and Horns | Hungry, Hungry Lionfish | Sweet-Tooth Squirrel | Golfing Over the Edge | Teeny Tiny Home | Truck Rally | Legs for Fetch | Grabber Arm |
|------------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|
| Lesson Description | Students will develop a model of the unique life cycle of an animal and compare some common aspects of all life cycles such as birth, growth, reproduction and death. | Students will use a model to construct an argument that living in a group helps elephants protect their offspring. | Students will analyse and interpret information from fossils to provide evidence of organisms and the environments in which they lived long ago. | Students will construct an explanation for how variations in the colours of the same species of insects may provide advantages for individuals that help them survive. | Students will make a claim about the likelihood of different animals surviving in a specific environment. | Students will use evidence to explain how traits are inherited from parents and can vary among offspring. | Students will make a claim about the merit of a solution to a problem caused when an invasive species changes an environment and the animals living in it. | Students will use evidence to explain the effect of balanced and unbalanced forces on an object. | Students will make observations of an object's motion to provide evidence that a pattern can be used to predict future motion. | Students will make a claim about the merit of a design solution that reduces the impacts of a local weather-related hazard. | Define a simple design problem reflecting a want that includes specified criteria for success and constraints on materials and time. | Students will create solutions to a problem and test to compare how well they perform. | Students will plan and carry out tests to identify aspects of a model that can be improved. |
| Curriculum | AC9S3U01 | AC9S3U03 | AC9S3U01 | AC9S3U02 | AC9S3U01 | AC9S3U01 | AC9S3U01 | AC9S3U01 | AC9S4U03 | AC9S4U03 | AC9S4U02 | AC9S4U03 | AC9S4U03 |
| Curriculum Description | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Compare characteristics of living and non-living things and examine the differences between the life cycles of plants and animals | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Compare the observable properties of soils, rocks and minerals and investigate why they are important Earth resources | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects |

Upper Primary
(Year 3-6)

| Lesson Title | Deep Down Underground | Plant Powers | Nature Party | Lemonade Shake | Ra-Ra-Rattlesnake! | Navigating the Unknown | Energy Racer | Feel the Beat | Crush the Core | Control the Roll | Disco Snail | Turning Towers | Ocean Disco | Bug Bot Race |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lesson Description | Students will use a model to explain that changes happen in a landscape over time. | Students will explain the function of external structures that support the survival and growth of plants and animals. | Students will explain that energy is derived from natural resources and describe how its use affects the environment. | Students will create and compare solutions to reduce the impact of earthquakes. | Students will construct an argument that animals have external structures that function to support survival. | Students will use a model to investigate how animals receive information through their senses and process it in order to respond to their environment. | Students will use evidence to explain that the faster an object moves, the more energy it has. | Students will make observations to provide evidence that energy can be transferred from place to place by sound. | Students will ask questions and predict outcomes about the changes in energy that occur when objects collide. | Students will generate and compare multiple solutions for transferring information to safely park airplanes at an airport. | Students will create, test and refine a device that converts energy from one form to another. | Students will define a simple design problem and develop a solution that includes specified criteria for success and constraints. | Students will generate and compare multiple solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. | Students will carry out fair tests in which variables are controlled and failure points are considered in order to identify aspects of a prototype model that can be improved. |
| Curriculum | AC9S4U03 | AC9S3U01 | AC9S4U01 | AC9S4U04 | AC9S4U03 | AC9S4U02 | AC9S4U02 | AC9S4U03 | AC9S2U02 | AC9S4U03 | AC9S4U04 | AC9S4U03 | AC9S4U03 | AC9S4U03 |
| Curriculum Description | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects |

Upper Primary (Year 3-6)

| Lesson Title | Down With Gravity | Sun Snack | Stink Squad | Desert Island Community | Twin Scoops | Slow-Down Race | Snacking Seagull | Wheel of Properties | Circle of Soil | Energy Chain | Critter Crossing | Hungry Machine | Life on a New Planet |
|-------------------------------|--|---|---|---|---|---|--|---|--|---|---|--|--|
| Lesson Description | Students will support an explanation that gravity pulls objects down, toward the center of the Earth. | Students will use a model to describe that energy in animals' food was once energy from the sun. | Students will use and develop models to describe that smell is connected to bulk matter and is made of particles too small to be seen. | Students will model ways individuals and communities use scientific ideas to protect Earth's resources and the environment. | Students will explain how communities can use scientific ideas to protect Earth's resources and the environment. | Students will develop a model to describe particles in the air that are too small to be seen. | Students will make observations to provide evidence that regardless of the change that occurs when the elements of a model are mixed, the total weight is conserved. | Students will make observations to identify materials based on their properties. | Students will develop a model to describe the movement of matter among plants, animals and decomposers in an ecosystem. | Students will build a model to describe that energy in animals' food was once energy from the Sun. | Students will define a simple design problem that reflects a need with specified criteria for success. | Students will generate and compare multiple solutions to a problem based on how well each meets the criteria of the problem. | Students will plan and carry out fair tests in which variables are controlled and failure points are considered in order to identify aspects of a model or prototype that can be improved. |
| Curriculum | AC9S4U03 | AC9S4U01 | AC9S4U01 | AC9S5U04 | AC9S5H02 | AC9S5U02 | AC9S5U04 | AC9S5U03 | AC9S4U04 | AC9S6U01 | AC9S6U01 | AC9S6U01 | AC9S5U01 |
| Curriculum Description | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | Explain the roles and interactions of consumers, producers and decomposers within a habitat and how food chains represent feeding relationships | Explain the roles and interactions of consumers, producers and decomposers within a habitat and how food chains represent feeding relationships | Explain observable properties of solids, liquids and gases by modelling the motion and arrangement of particles | Investigate how scientific knowledge is used by individuals and communities to identify problems, consider responses and make decisions | Describe how weathering, erosion, transportation and deposition cause slow or rapid change to Earth's surface | Explain observable properties of solids, liquids and gases by modelling the motion and arrangement of particles | Describe how changes to the states of matter and combinations of substances involve the addition or removal of heat, and identify which changes can be reversed or irreversible | Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects | plan and conduct repeatable investigations to answer questions, including identifying variables and planning fair tests | plan and conduct repeatable investigations to answer questions, including identifying variables and planning fair tests | plan and conduct repeatable investigations to answer questions, including identifying variables and planning fair tests | examine how particular structural features and behaviours of living things enable their survival in specific habitats |

Secondary
(Year 7-10)

| Lesson Title | Forest Showdown | Windy City | A Breath of Fresh Space | Save the Salmon | Building Space | Conceal the Meal | Population Pressure | Game of Goals | Trait Selector | Big Fish in a Little Pond | Ostrich Dance | Supercharged Plants | Cell City | More than a Nucleus |
|------------------------|---|---|---|--|---|---|--|---|---|--|---|--|--|---|
| Lesson Description | Students will support an argument that changes to the components of an ecosystem affect populations and will then evaluate design solutions for maintaining biodiversity. | Students will analyze an area and design solutions to forecast and mitigate the effects of a hurricane. | Students will use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved. | Students will design a method for monitoring and minimizing a human impact on the environment. | Students will develop and use a model of the Earth-Sun-Moon system to describe the cyclic pattern of eclipses of the Sun. | Students will construct an explanation that describes how variations of traits in a population increase some individual's probability of surviving in a specific environment. | Students will construct an argument that explains how increases in human population impact Earth's resources. | Students will use a model to generate data for iterative testing and modification such that an optimal design can be achieved. | Students will explain how humans can influence the inheritance of desired traits in organisms. | Students will construct an explanation for how environmental factors influence the growth of organisms. | Students will use a model to explain how characteristic animal behaviors affect the probability of successful reproduction. | Students will construct an explanation for the role of photosynthesis in the flow of energy on Earth. | Students will develop and use a model to represent the ways parts of a cell contribute to the function of the whole cell. | Students will develop and use a model to describe the function of a cell as a whole and the ways parts of cells contribute to the function. |
| Curriculum | AC9S7U04 | AC9S7U02 | AC9S7I04 | AC9S9U07 | AC9S7U02 | AC9S7U03 | AC9S10U02 | AC9S8H03 | AC9S7I04 | AC9S10U01 | AC9S7U02 | AC9S9U02 | AC9S8U02 | AC9S8U01 |
| Curriculum Description | investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | select and construct appropriate representations, including tables, graphs, models and mathematical relationships, to organise and process data and information | model the rearrangement of atoms in chemical reactions using a range of representations, including word and simple balanced chemical equations, and use these to demonstrate the law of conservation of mass | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | model cyclic changes in the relative positions of the Earth, sun and moon and explain how these cycles cause eclipses and influence predictable phenomena on Earth, including seasons and tides | use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory | examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations | select and construct appropriate representations, including tables, graphs, models and mathematical relationships, to organise and process data and information | explain the role of meiosis and mitosis and the function of chromosomes, DNA and genes in heredity and predict patterns of Mendelian inheritance | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | describe the form and function of reproductive cells and organs in animals and plants, and analyse how the processes of sexual and asexual reproduction enable survival of the species | analyse the relationship between structure and function of cells, tissues and organs in a plant and an animal organ system and explain how these systems enable survival of the individual | recognise cells as the basic units of living things, compare plant and animal cells, and describe the functions of specialised cell structures and organelles |

Secondary (Year 7-10)

| Lesson Title | Fish Food | Kinetic Kicker | Push Power | Rapid Reaction | Bee-ware | Spinning and Winning | Double the Push | Move the Matter | Bats on the Brink | Rivals and Allies | Loch Ness Express | Cow on the Roof | Chickens in Space |
|-------------------------------|---|---|--|---|--|--|--|---|---|---|--|---|--|
| Lesson Description | Students will analyze the effects of resource availability on different organisms and populations of organisms in an ecosystem. | Students will construct a device to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object. | Students will apply Newton's third law to design a solution to a problem. | Students will explain that senses respond to stimuli by sending messages to the brain for immediate behavior or storage as memories. | Students will use a model to explain that sensory receptors respond to inputs by sending messages to the brain for immediate behavior or storage as memories. | Students will investigate and describe the relationships of kinetic energy to the mass of an object and to the speed of an object. | Students will plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object. | Students will develop a model to describe the cycling of matter among living and nonliving parts of an ecosystem. | Students will evaluate competing design solutions to solve a problem related to maintaining biodiversity. | Students will describe patterns of interactions among organisms across multiple ecosystems. | Students will describe the components of a problem and design a solution by defining criteria and constraints including potential impacts on humans and the environment. | Students will evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of a given problem. | Students will develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem. |
| Curriculum | AC9S8U01 | AC9S7U02 | AC9S8U05 | AC9S7U04 | AC9S9U01 | AC9S9U01 | AC9S8U05 | AC9S7U04 | AC9S7U02 | AC9S7U02 | AC9S7U01 | AC9S8U05 | AC9S8U05 |
| Curriculum Description | recognise cells as the basic units of living things, compare plant and animal cells, and describe the functions of specialised cell structures and organelles | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems | investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it | compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism | compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems | investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | investigate the role of classification in ordering and organising the diversity of life on Earth and use and develop classification tools including dichotomous keys | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems |

Secondary (Year 7-10)

| Lesson Title | Operate in Colour | Up Top Robot | Shaking Signals | Frosty Fur and Frozen Feet | Aliens Alike and Not Quite | Food Festival Fix | Robotic Restaurant | Feathers, Fur and Family | Troll Stole My Soup | Hit It, Move It | Energy Booster | Blades and Barnacles | Polar Paws |
|-------------------------------|---|--|--|---|---|--|---|---|--|---|---|--|---|
| Lesson Description | Students will generate data through testing to help them plan an optimal design process. | Students will develop a model for iterative testing and modification such that an optimal design can be achieved. | Students will develop a device to obtain data about earthquakes and mitigate their effects. | Students will use a model to show how natural selection may lead to increases and decreases of specific traits in populations over time. | Students will develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation. | Students will design a method for minimizing and monitoring a human impact on the environment. | Students will define the criteria and constraints of a design problem, taking into account ways the environment may limit possible solutions. | Students will use models to support an explanation for how characteristic animal behaviors affect the probability of successful reproduction. | Students will develop a model that describes changes in particle motion, temperature, and state of a substance when thermal energy is added or removed. | Students will plan an investigation to provide evidence that the change in an object's motion depends on the sum of forces acting on the object and the mass of the object. | Students will use a model to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object. | Students will evaluate competing design solutions for maintaining biodiversity using agreed upon criteria and constraints. | Students will describe how genetic variations of traits in a population increase some individuals' probability of surviving in a specific environment. |
| Curriculum | AC9S7U02 | AC9S8U05 | AC9S8U05 | AC9S8U03 | AC9S10U02 | AC9S10U02 | AC9S8H03 | AC9S8U05 | AC9S9U02 | AC9S7U05 | AC9S7U04 | AC9S8U05 | AC9S7U02 |
| Curriculum Description | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems | use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory | investigate tectonic activity including the formation of geological features at divergent, convergent and transform plate boundaries and describe the scientific evidence for the theory of plate tectonics | use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory | use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory | examine how proposed scientific responses to contemporary issues may impact on society and explore ethical, environmental, social and economic considerations | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems | describe the form and function of reproductive cells and organs in animals and plants, and analyse how the processes of sexual and asexual reproduction enable survival of the species | use particle theory to describe the arrangement of particles in a substance, including the motion of and attraction between particles, and relate this to the properties of the substance | investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it | classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems | use models, including food webs, to represent matter and energy flow in ecosystems and predict the impact of changing abiotic and biotic factors on populations |