



## Science Lesson Plans For Official Use

# Homeschooling Program Department

**Revised on July 14th 2024** 

## **Grade 1 Science Lesson Plan**

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessments (Projects etc)
1	Identify living and non-living things	Living vs non-living things	Observe and classify items as living or non-living	Real objects, pictures, videos	Classify items as living or non-living
2	Understand the importance of a healthy diet	Healthy vs unhealthy food	Compare different types of food, discuss healthy eating	Food charts, real food samples	Creating a healthy meal plan
3	Recognize different body parts and their functions	Body parts and functions	Label body parts on a diagram, explain their functions	Body diagrams, charts	Worksheet on body parts
4	Identify and classify different types of animals	Animal classification	Group animals based on observable characteristics	Animal models, pictures, charts	Animal classification project
5	Understand the basic needs of plants	Plant needs	Discuss what plants need to grow, observe plant growth	Plant seeds, soil, water	Growing a plant and recording observations
6	Recognize the importance of recycling	Recycling	Identify recyclable materials, discuss recycling benefits	Recycling bins, posters	Creating a recycling project
7	Understand the water cycle	Water cycle	Demonstrate the water cycle, discuss each stage	Water cycle diagram, videos	Creating a water cycle model

8	Recognize different weather patterns	Weather patterns	Observe and discuss different weather patterns	Weather charts, pictures	Weather observation diary
9	Identify different habitats and their inhabitants	Habitats	Explore different habitats, discuss animals and plants found in each	Habitat models, videos, books	Poster on different habitats
10	Understand the concept of force	Types of force	Demonstrate push and pull forces using everyday objects	Balls, ropes, toys	Experiment with push and pull
11	Recognize different forms of energy	Forms of energy	Experiment with light, sound, and heat energy	Flashlight, musical instruments, heater	Experiments on forms of energy
12	Understand basic hygiene practices	Personal hygiene	Demonstrate proper hand washing, brushing teeth	Soap, toothbrush, water	Demonstration of hygiene practices

Wee Learning k Objectives			Content/Topic s		Learning Experiences	Т	Teaching/Learning Resources		Assessments (Projects etc)
1	I	ntify different irces of food	Sources of food		scuss plant and mal sources of od		Food charts, real food samples		ood source lassification

2	ir	Understand the importance of exercise		Exercise and health		h	c	Discuss different types of exercise and their benefits		es Exercise videos, pictures			Creating an exercise plan		
3		Doognizo diffor	ont.		000	rtion		Τ,	Observe and	T	`on	mples of	1	N / /	aterials
3	n	Recognize different and the properties			Properties of materials		c k	classify materials w		wood, metal,		cla	assification oject		
4	cycle of a plant life the		the	e stages of a plant se				be	awing and eling plant life cle						
5	Recognize Types of pollution pollution			lar	Discuss air, water, and and pollution and their effects		Pollution images, videos		1	Poster on types of pollution					
6	Understand the importance of saving energy		on	n save energy at co		energy onservation harts, videos			Creating an energy-savin g plan						
7	d	dentify lifferent types of plants	of	pes ants		diffe	erei	nt	nt plants based on		samples,		cla	ant assification oject	
8	ir	Recognize the mportance of nsects		Ins s				cts	s different types of and their roles in th ment	e	Insect models, pictures			nsect observation diary	
9		Identify different types of soil		ype:		differer			ve and classify nt types of soil based ture and color		samples,			oil assification oject	
10							Sun charts, videos		ol	un oservation roject					

## Term 3 (9 Weeks)

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Recognize different landforms	Landforms	Discuss and identify different landforms like mountains, valleys, and plains	Landform models, pictures	Creating a landform model
2	Understand the importance of water	Water resources	Discuss different sources of water and their uses	Water charts, videos	Water usage diary
3	Identify different types of rocks	Types of rocks	Observe and classify different rocks based on their properties	Rock samples, charts	Rock classification project
4	Recognize the importance of community helpers	Community helpers	Discuss different community helpers and their roles	Pictures of community helpers	Community helper role-play
5	Understand basic first aid	First aid basics	Discuss and demonstrate basic first aid techniques	First aid kit, videos	First aid demonstratio n
6	Identify different types of weather	Weather types	Observe and discuss different weather types like sunny,	Weather charts, pictures	Weather observation journal

			rainy, and cloudy		
7	Recognize the importance of forests	Forests	Discuss different types of forests and their importance	Forest images, videos	Forest preservation project
8	Understand the basic needs of animals	Animal needs	Discuss what animals need to survive	Animal charts, videos	Animal needs project
9	Identify different types of fruits	Types of fruits	Observe and classify different fruits based on their characteristics	Fruit samples, pictures	Fruit classification project

#### **Grade 2 Science Lesson Plan**

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessments (Projects etc)
1	Understand the basic needs of plants	Plant needs	Discuss what plants need to grow, observe plant growth	Plant seeds, soil, water	Growing a plant and recording observations
2	Identify and classify different types of animals	Animal classification	Group animals based on observable characteristics	Animal models, pictures, charts	Animal classification project

3	Recognize the importance of recycling	Recycling	Identify recyclable materials, discuss recycling benefits	Recycling bins, posters	Creating a recycling project
4	Understand the water cycle	Water cycle	Demonstrate the water cycle, discuss each stage	Water cycle diagram, videos	Creating a water cycle model
5	Recognize different weather patterns	Weather patterns	Observe and discuss different weather patterns	Weather charts, pictures	Weather observation diary
6	Identify different habitats and their inhabitants	Habitats	Explore different habitats, discuss animals and plants found in each	Habitat models, videos, books	Poster on different habitats
7	Understand the concept of force	Types of force	Demonstrate push and pull forces using everyday objects	Balls, ropes, toys	Experiment with push and pull
8	Recognize different forms of energy	Forms of energy	Experiment with light, sound, and heat energy	Flashlight, musical instruments, heater	Experiments on forms of energy
9	Identify and classify different materials	Properties of materials	Observe and classify materials based on properties	Samples of wood, metal, plastic	Materials classification project

10	Understand	Personal	Demonstrate	Soap, toothbrush,	Demonstration
	the	hygiene	proper hand	water	of hygiene
	importance		washing,		practices
	of personal		brushing teeth		
	hygiene				

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Identify different sources of food	Sources of food	Discuss plant and animal sources of food	Food charts, real food samples	Food source classification
2	Understand the importance of exercise	Exercise and health	Discuss different types of exercise and their benefits	Exercise videos, pictures	Creating an exercise plan
3	Recognize different forms of transportation	Transportation	Discuss different types of transportation and their uses	Transportation models, pictures	Project on forms of transportation
4	Understand the life cycle of a plant	Plant life cycle	Observe and discuss the stages of a plant life cycle	Plant seeds, soil, water	Drawing and labeling plant life cycle
5	Identify different types of soil	Types of soil	Observe and classify different types of soil based on texture and color	Soil samples, charts	Soil classification project
6	Recognize different materials and their uses	Uses of materials	Discuss how different materials are	Samples of different materials	Materials usage project

used in	
everyday	life

			everyday life		
7	Understand the basic needs of animals	Animal needs	Discuss what animals need to survive	Animal charts, videos	Animal needs project
8	Identify different types of fruits and vegetables	Fruits and vegetables	Observe and classify different fruits and vegetables based on their characteristics	Fruit and vegetable samples, pictures	Fruit and vegetable classification project
9	Recognize the importance of the sun	The sun	Discuss the role of the sun in providing light and heat	Sun charts, videos	Sun observation project
10	Understand basic first aid	First aid basics	Discuss and demonstrate basic first aid techniques	First aid kit, videos	First aid demonstratio n

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Recognize different landforms	Landforms	Discuss and identify different landforms like mountains, valleys, and plains	Landform models, pictures	Creating a landform model
2	Understand the importance of water	Water resources	Discuss different sources of water and their uses	Water charts, videos	Water usage diary

3	Identify different types of rocks	Types of rocks	Observe and classify different rocks based on their properties	Rock samples, charts	Rock classification project
4	Recognize the importance of forests	Forests	Discuss different types of forests and their importance	Forest images, videos	Forest preservation project
5	Understand the concept of recycling	Recycling	Discuss the benefits of recycling and how to recycle different materials	Recycling bins, posters	Recycling project
6	Identify different types of magnets	Magnets	Explore and discuss different types of magnets and their uses	Magnet samples, charts	Magnet exploration project
7	Recognize the importance of community helpers	Community helpers	Discuss different community helpers and their roles	Pictures of community helpers	Community helper role-play
8	Understand the basics of weather forecasting	Weather forecasting	Discuss how weather forecasts are made and their importance	Weather maps, videos	Creating a weather forecast chart
9	Identify different types of ecosystems	Ecosystems	Discuss different ecosystems and their components	Ecosystem charts, books	Project on ecosystems

10	Recognize	Technology	Discuss	Technology	Presentation
	the		various	articles, videos	on
	importance of		technological		technological
	technological		advancements		advancement
	advancement		and their		S
	S		impact on		
			society		

#### **Grade 3 Science Lesson Plan**

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessments (Projects etc)
1	Understand the basic needs of plants and animals	Needs of plants and animals	Discuss and observe the basic needs of plants and animals	Plant seeds, soil, water, animal pictures	Growing a plant and recording observations, animal needs chart
2	Identify and classify different types of animals	Animal classification	Group animals based on observable characteristics	Animal models, pictures, charts	Animal classification project
3	Recognize the importance of recycling	Recycling	Identify recyclable materials, discuss recycling benefits	Recycling bins, posters	Creating a recycling project
4	Understand the water cycle	Water cycle	Demonstrate the water cycle, discuss each stage	Water cycle diagram, videos	Creating a water cycle model
5	Recognize different weather patterns	Weather patterns	Observe and discuss different weather patterns	Weather charts, pictures	Weather observation diary

6	Identify different habitats and their inhabitants	Habitats	Explore different habitats, discuss animals and plants found in each	Habitat models, videos, books	Poster on different habitats
7	Understand the concept of force	Types of force	Demonstrate push and pull forces using everyday objects	Balls, ropes, toys	Experiment with push and pull
8	Recognize different forms of energy	Forms of energy	Experiment with light, sound, and heat energy	Flashlight, musical instruments, heater	Experiments on forms of energy
9	Identify and classify different materials	Properties of materials	Observe and classify materials based on properties	Samples of wood, metal, plastic	Materials classification project
10	Understand the importance of personal hygiene	Personal hygiene	Demonstrate proper hand washing, brushing teeth	Soap, toothbrush, water	Demonstration of hygiene practices

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Identify different sources of food	Sources of food	Discuss plant and animal sources of food	Food charts, real food samples	Food source classification

2	Understand the importance of exercise	Exercise and health	Discuss different types of exercise and their benefits	Exercise videos, pictures	Creating an exercise plan
3	Recognize different forms of transportation	Transportation	Discuss different types of transportation and their uses	Transportation models, pictures	Project on forms of transportation
4	Understand the life cycle of a plant	Plant life cycle	Observe and discuss the stages of a plant life cycle	Plant seeds, soil, water	Drawing and labeling plant life cycle
5	Identify different types of soil	Types of soil	Observe and classify different types of soil based on texture and color	Soil samples, charts	Soil classification project
6	Recognize different materials and their uses	Uses of materials	Discuss how different materials are used in everyday life	Samples of different materials	Materials usage project
7	Understand the basic needs of animals	Animal needs	Discuss what animals need to survive	Animal charts, videos	Animal needs project
8	Identify different types of fruits and vegetables	Fruits and vegetables	Observe and classify different fruits and vegetables based on their characteristics	Fruit and vegetable samples, pictures	Fruit and vegetable classification project

9	Recognize the importance of the sun	The sun	Discuss the role of the sun in providing light and heat	Sun charts, videos	Sun observation project
10	Understand basic first aid	First aid basics	Discuss and demonstrate basic first aid techniques	First aid kit, videos	First aid demonstratio n
Term 3	(10 Weeks)				
Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
	_	-	_		s (Projects

different

sources of

water and their uses

Observe and

different rocks

based on their properties

different types

of forests and

importance

classify

Discuss

their

resources

Types of rocks

**Forests** 

videos

charts

videos

Rock samples,

Forest images,

the

water

Identify

of rocks

Recognize

importance of

the

forests

3

4

importance of

different types

diary

Rock

project

Forest

project

preservation

classification

5	Understand the concept of recycling	Recycling	Discuss the benefits of recycling and how to recycle different materials	Recycling bins, posters	Recycling project
6	Identify different types of magnets	Magnets	Explore and discuss different types of magnets and their uses	Magnet samples, charts	Magnet exploration project
7	Recognize the importance of community helpers	Community helpers	Discuss different community helpers and their roles	Pictures of community helpers	Community helper role-play
8	Understand the basics of weather forecasting	Weather forecasting	Discuss how weather forecasts are made and their importance	Weather maps, videos	Creating a weather forecast chart
9	Identify different types of ecosystems	Ecosystems	Discuss different ecosystems and their components	Ecosystem charts, books	Project on ecosystems
10	Recognize the importance of technological advancement s	Technology	Discuss various technological advancements and their impact on society	Technology articles, videos	Presentation on technological advancement s

#### **Grade 4 Science Lesson Plan**

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Understand the structure of the human body	Human body systems	Explore different body systems, discuss their functions	Human body models, charts	Presentation on human body systems
2	Recognize the importance of electricity	Electricity	Experiment with simple circuits, discuss safety	Batteries, wires, bulbs	Building a simple circuit
3	Identify renewable and non-renewab le resources	Resources	Discuss different types of resources, their uses and conservation	Resource charts, videos	Project on conserving resources
4	Understand the solar system	Solar system	Explore planets, stars, and moons, discuss their characteristics	Solar system models, videos	Creating a solar system model
5	Recognize the importance of ecosystems	Ecosystems	Discuss different ecosystems, their components and interactions	Ecosystem charts, books	Project on an ecosystem
6	Identify different types of weather and climate	Weather and climate	Observe weather patterns, discuss climate zones	Weather instruments, maps	Recording weather observations
7	Understand the basics of magnetism	Magnetism	Explore properties of magnets, their uses	Magnet samples, iron filings, charts	Magnet experiments

8	Recognize the importance of water conservation	Water conservation	Discuss the water cycle, ways to conserve water	Water cycle models, conservation charts	Water conservation project
9	Identify different types of rocks and minerals	Rocks and minerals	Observe and classify rocks and minerals based on properties	Rock and mineral samples, charts	Rock and mineral classification project
10	Understand the importance of healthy living	Healthy living	Discuss nutrition, exercise, and hygiene	Health charts, food pyramid, videos	Creating a healthy living plan

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Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Understand the life cycle of animals	Animal life cycles	Observe and discuss the life cycles of different animals	Animal life cycle charts, videos	Drawing and labeling animal life cycles
2	Recognize the importance of the Earth's resources	Earth's resources	Discuss natural resources and their uses	Resource charts, samples	Project on using natural resources
3	Identify the states of matter	States of matter	Experiment with solids, liquids, and gases	Various materials (water, air, ice)	Experiments on states of matter
4	Understand the basics of sound	Sound	Explore how sound is produced and travels	Tuning forks, musical instruments	Sound experiments

5	Recognize different types of pollution	Pollution	Discuss air, water, and land pollution and their effects	Pollution images, videos	Poster on types of pollution
6	Understand the importance of saving energy	Energy conservation	Discuss ways to save energy at home and school	Energy conservation charts, videos	Creating an energy-savin g plan
7	Identify different types of plants	Types of plants	Observe and classify different plants based on their characteristics	Plant samples, pictures	Plant classification project
8	Recognize the importance of insects	Insects	Discuss different types of insects and their roles in the environment	Insect models, pictures	Insect observation diary
9	Understand basic weather instruments	Weather instruments	Explore and discuss different weather instruments	Thermometer, rain gauge, wind vane	Creating a weather instrument
10	Recognize different forms of transportation	Transportation	Discuss different types of transportation and their uses	Transportation models, pictures	Project on forms of transportatio n
Term 3	(10 Weeks)				
Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)

1	Understand the concept of force	Force and motion	Explore push and pull forces, friction, and gravity	Balls, ramps, scales	Experiments on force and motion
2	Recognize the importance of simple machines	Simple machines	Discuss different types of simple machines and how they work	Lever, pulley, wheel and axle models	Simple machine experiments
3	Identify the different forms of energy	Forms of energy	Explore and experiment with light, heat, and electrical energy	Flashlights, heaters, batteries	Energy experiments
4	Understand the basics of plant reproduction	Plant reproduction	Observe and discuss how plants reproduce, pollination, seed dispersal	Flowers, seeds, charts	Drawing the plant reproduction process
5	Recognize the importance of the moon	The moon	Discuss the phases of the moon, its effects on Earth	Moon phase charts, videos	Moon observation project
6	Understand the basics of the human digestive system	Human digestive system	Explore and discuss the process of digestion	Digestive system models, charts	Project on the human digestive system
7	Identify different types of ecosystems	Ecosystems	Discuss different ecosystems and their components	Ecosystem charts, books	Project on ecosystems

8	Recognize the importance of technological advancement s	Technology	Discuss various technological advancement s and their impact on society	Technology articles, videos	Presentation on technological advancement s
9	Understand the basics of light and shadow	Light and shadow	Explore how light travels, formation of shadows	Torches, opaque objects	Experiments with light and shadow
10	Recognize the importance of Earth's atmosphere	Earth's atmosphere	Discuss the layers of the atmosphere, its importance	Atmosphere charts, videos	Project on Earth's atmosphere

## **Grade 5 Science Lesson Plan**

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessmen ts (Projects etc)
1	Understand the structure and function of cells	Cells	Observe plant and animal cells under a microscope, discuss cell functions	Microscopes, slides, cell diagrams	Drawing and labeling plant and animal cells
2	Recognize the different parts of a plant	Plant anatomy	Identify and describe the function of roots, stems, leaves, and flowers	Plant samples, diagrams	Plant dissection and labeling

3	Understand photosynthesi s	Photosynthesi s	Discuss the process of photosynthesis , experiment with plants	Plant samples, light source, charts	Experiment on the effect of light on plants
4	Identify different types of ecosystems	Ecosystems	Explore various ecosystems, discuss interactions between organisms	Ecosystem models, videos	Project on a chosen ecosystem
5	Understand the human circulatory system	Circulatory system	Explore the heart, blood vessels, and blood, discuss their functions	Heart models, diagrams, videos	Creating a model of the circulatory system
6	Recognize the importance of the respiratory system	Respiratory system	Discuss the process of breathing, explore the lungs and airways	Lung models, charts	Project on the respiratory system
7	Identify different states of matter	States of matter	Experiment with solids, liquids, and gases, discuss properties	Various materials (water, ice, air)	Experiments on states of matter
8	Understand the basics of light and sound	Light and sound	Explore how light travels, sound waves, and their properties	Flashlights, tuning forks, charts	Light and sound experiments
9	Recognize the importance of the water cycle	Water cycle	Discuss the stages of the water cycle, create a model	Water cycle diagrams, videos	Creating a water cycle model

10	Understand	Weather and	Observe and	Weather	Weather
	basic weather	climate	record weather	instruments, maps	observation
	and climate		patterns,		journal
	concepts		discuss climate		
			zones		

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Understand the basics of the digestive system	Digestive system	Explore and discuss the process of digestion, organs involved	Digestive system models, charts	Project on the digestive system
2	Recognize the importance of nutrients	Nutrition	Discuss different nutrients, their sources, and their importance	Food charts, real food samples	Creating a balanced meal plan
3	Identify renewable and non-renewabl e energy sources	Energy sources	Discuss various energy sources, their uses, and conservation	Energy charts, videos	Project on energy conservation
4	Understand the concept of forces and motion	Forces and motion	Experiment with push and pull forces, friction, gravity	Balls, ramps, scales	Experiments on forces and motion
5	Recognize the importance of simple machines	Simple machines	Discuss different types of simple machines and their uses	Lever, pulley, wheel and axle models	Simple machine experiments

6	Identify different types of rocks and minerals	Rocks and minerals	Observe and classify rocks and minerals based on properties	Rock and mineral samples, charts	Rock and mineral classification project
7	Understand the basics of plant reproduction	Plant reproduction	Explore and discuss how plants reproduce, pollination, seed dispersal	Flowers, seeds, charts	Drawing the plant reproduction process
8	Recognize the importance of the Earth's resources	Earth's resources	Discuss natural resources and their uses	Resource charts, samples	Project on using natural resources
9	Identify different types of weather instruments	Weather instruments	Explore and discuss different weather instruments	Thermometer, rain gauge, wind vane	Creating a weather instrument
10	Understand basic concepts of electricity	Electricity	Experiment with simple circuits, discuss safety	Batteries, wires, bulbs	Building a simple circuit
Term 3	(10 Weeks)				
Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Recognize the different parts and functions of the human body	Human body systems	Explore the skeletal, muscular, and nervous systems	Human body models, charts	Presentation on human body systems

2	Understand the basics of the solar system	Solar system	Explore planets, stars, and moons, discuss their characteristics	Solar system models, videos	Creating a solar system model
3	Identify different forms of energy	Forms of energy	Experiment with light, heat, and electrical energy	Flashlights, heaters, batteries	Energy experiments
4	Recognize the importance of ecosystems	Ecosystems	Discuss different ecosystems, their components and interactions	Ecosystem charts, books	Project on an ecosystem
5	Understand the basics of magnetism	Magnetism	Explore properties of magnets, their uses	Magnet samples, iron filings, charts	Magnet experiments
6	Recognize the importance of water conservation	Water conservation	Discuss the water cycle, ways to conserve water	Water cycle models, conservation charts	Water conservation project
7	Identify the layers of the Earth	Earth's layers	Explore and discuss the crust, mantle, core	Earth models, diagrams	Drawing and labeling Earth's layers
8	Understand the importance of technological advancement s	Technology	Discuss various technological advancement s and their impact on society	Technology articles, videos	Presentation on technological advancement s

9	Recognize different forms of transportation	Transportation	Discuss different types of transportation and their uses	Transportation models, pictures	Project on forms of transportation
10	Review and prepare for National Grade 6	Review and preparation	Review all key topics from the year, practice assessments	Review sheets, practice tests	Mock assessments, review activities

#### **Grade 6 Science Lesson Plan**

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Understand the structure and function of cells	Cells	Observe plant and animal cells under a microscope, discuss cell functions	Microscopes, slides, cell diagrams	Drawing and labeling plant and animal cells
2	Recognize the parts and functions of the human body	Human body systems	Explore the circulatory, respiratory, and digestive systems	Body models, diagrams, videos	Creating models of body systems
3	Understand the basics of plant and animal reproduction	Reproduction	Discuss sexual and asexual reproduction, observe examples	Plant seeds, flower models, charts	Reproduction process projects
4	Identify different ecosystems and their importance	Ecosystems	Discuss various ecosystems, their components,	Ecosystem models, videos, books	Project on chosen ecosystem

			and interactions		
5	Understand the properties and states of matter	States of matter	Experiment with solids, liquids, and gases, discuss their properties	Various materials (water, ice, air)	States of matter experiments
6	Recognize the importance of the water cycle	Water cycle	Discuss the stages of the water cycle, create a model	Water cycle diagrams, videos	Creating a water cycle model
7	Understand the basics of light and sound	Light and sound	Explore how light travels, sound waves, and their properties	Flashlights, tuning forks, charts	Light and sound experiments
8	Identify renewable and non-renewabl e energy sources	Energy sources	Discuss various energy sources, their uses, and conservation	Energy charts, videos	Project on energy conservation
9	Recognize different types of forces and motion	Forces and motion	Experiment with push and pull forces, friction, gravity	Balls, ramps, scales	Experiments on forces and motion
10	Review and prepare for National Grade 6 Assessment	Review and preparation	Review key topics from the term, practice assessments	Review sheets, practice tests	Mock assessments, review activities
Term 2	(10 Weeks)				
Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)

1	Understand the human nervous system	Nervous system	Explore the brain, spinal cord, and nerves, discuss their functions	Nervous system models, charts	Project on the nervous system
2	Recognize the importance of nutrition and a balanced diet	Nutrition	Discuss different nutrients, their sources, and importance	Food charts, real food samples	Creating a balanced meal plan
3	Identify different types of rocks and minerals	Rocks and minerals	Observe and classify rocks and minerals based on properties	Rock and mineral samples, charts	Rock and mineral classification project
4	Understand the basics of electricity and circuits	Electricity	Experiment with simple circuits, discuss safety	Batteries, wires, bulbs	Building simple circuits
5	Recognize different forms of energy and their conversions	Forms of energy	Explore light, heat, and electrical energy, discuss energy conversions	Flashlights, heaters, batteries	Energy conversion experiments
6	Identify the layers of the Earth	Earth's layers	Discuss the crust, mantle, core, and their characteristics	Earth models, diagrams	Drawing and labeling Earth's layers
7	Understand the basics of the solar system	Solar system	Explore planets, stars, and moons, discuss their characteristics	Solar system models, videos	Creating a solar system model

8	Recognize the importance of ecosystems and biodiversity	Biodiversity	Discuss the importance of biodiversity, threats to ecosystems	Biodiversity charts, videos	Project on protecting biodiversity
9	Understand weather and climate	Weather and climate	Discuss weather patterns, climate zones, and their impact	Weather instruments, maps	Weather observation journal
10	Review and prepare for National Grade 6 Assessment	Review and preparation	Review key topics from the term, practice assessments	Review sheets, practice tests	Mock assessments , review activities

Wee k	Learning Objectives	Content/Topic s	Learning Experiences	Teaching/Learnin g Resources	Assessment s (Projects etc)
1	Understand the basics of plant biology	Plant biology	Discuss plant structure, photosynthesis , and respiration	Plant models, charts, diagrams	Plant biology experiments
2	Recognize the importance of the Earth's atmosphere	Atmosphere	Discuss the layers of the atmosphere and their importance	Atmosphere charts, videos	Project on Earth's atmosphere
3	Identify different types of simple machines	Simple machines	Explore levers, pulleys, wheels and axles, and their uses	Simple machine models, diagrams	Simple machine experiments

4	Understand the basics of magnetism	Magnetism	Explore properties of magnets, their uses	Magnet samples, iron filings, charts	Magnet experiments
5	Recognize the importance of the digestive system	Digestive system	Explore and discuss the process of digestion, organs involved	Digestive system models, charts	Project on the digestive system
6	Understand the importance of conservation	Conservation	Discuss conservation of resources, recycling, and sustainable practices	Conservation charts, recycling bins	Conservation project
7	Identify different forms of transportation	Transportation	Discuss different types of transportation and their impact on the environment	Transportation models, pictures	Project on forms of transportatio n
8	Recognize the importance of technological advancement s	Technology	Discuss various technological advancements and their impact on society	Technology articles, videos	Presentation on technological advancement s
9	Understand the basics of genetics and heredity	Genetics and heredity	Explore DNA, genes, and inheritance patterns	Genetic models, charts, videos	Genetics project
10	Review and prepare for National Grade 6 Assessment	Review and preparation	Review all key topics from the year, practice assessments	Review sheets, practice tests	Mock assessments , review activities