

Lesson 1: Introduction to City in a Garden

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Understand that a story has introduction, middle and end
Aesthetic and Creative expressions	Learning Goal 1:	Describe and explain ideas in their artwork
	Learning Goal 2:	Talk about the artworks of their peers
Discovery of the world	Learning Goal 1:	Show an interest in the world they live in
	Learning Goal 2:	Be aware of the need to conserve natural resources in their everyday life by reducing consumption, reusing and recycling materials

Lesson objectives:

Children will be able to:

- Say the name of the trees or animal that they recall from the story
- Describe the trees or animals that they remember
- Put together a K-W-L chart:
K (What We Know), W (What We Wonder), and L (What We Learnt)
- Write about or draw their favourite plants or animals

Learning disposition:

1. Appreciation

Strategy: Showing different ways of appreciating the different plants and animals that we have in Singapore.

What to prepare:

- ‘An adventure in a City in a Garden’ by Hui-Ling Chua, published by NParks
- Writing materials, butcher paper
- Mystery box
- NParks’ Snap Card Game

What to do:

Tuning In:

- The teacher will present the children a mystery box and get them to guess the contents inside the box.
- The teacher will get a volunteer to pick an item out of the box.
- The teacher will ask the child to talk about the picture on the snap card that he/she picked from the mystery box.
- The class will come up with a K-W chart

Lesson Development:

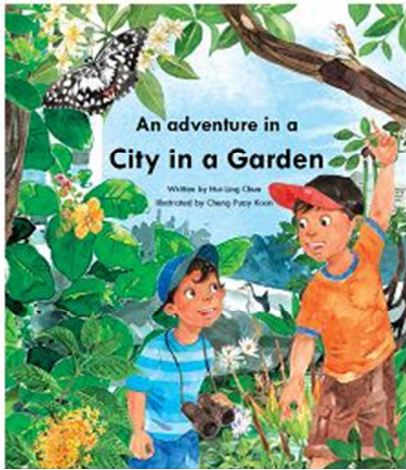
- The teacher will probe the children if they are interested to find out more about the card that has been selected by their friend.
- The teacher will conduct a picture talk before reading the story 'An adventure in a City in a Garden'.
- The teacher will instruct the children to listen out for the names of the trees and animals species mentioned in the book.
- After reading the story, the children will be asked to recall some of the animals and trees from the picture book.
- The teacher will explain that all the animals and trees seen in the picture book can be found in Singapore.

Closure:

- The children will complete the K-W-L chart with what they have learnt.
- The children will be given drawing materials and they will be asked to draw their favourite plant or animal featured in the picture book.

Resources:

NParks' Picture Book



NParks' Snap Cards



Lesson 2: Animal Relay

Learning areas	Learning Goals	
Motor Skills Development	Learning Goal 1:	Use locomotor skills (e.g. walking, running, jumping) to move from place to place with balance and control
	Learning Goal 2	Coordinate complex movements in play and games (e.g. move through obstacle course)
Self and social awareness	Learning Goal 1:	Describe and express their feelings in appropriate ways
	Learning Goal 2:	Recognise their uniqueness
Discovery of the world	Learning Goal 1:	Ask questions and seek answers by gathering information from different sources
	Learning Goal 2:	Make simple recordings of observations through drawing or writing

Lesson objectives:

Children will be able to:

- Act out the animal flashed using the picture cards
- The children will be able to identify the different animals found in Singapore's biodiversity
- Children will learn how they can help to conserve the biodiversity found in Singapore

Learning disposition:

1. Appreciation

Strategy: Showing different ways of appreciating the biodiversity in Singapore.

What to prepare:

- NParks' Picture Word Cards (of the animals)
- NParks' 'Peeky the Pangolin Explores Singapore' DVD
- Playdough

What to do:

Tuning In:

- Gather the children in a semi-circle.
- Inform the children that they will be watching a video about Singapore's wildlife.
- Play the NParks' video 3: 'Peeky the Pangolin Explores Singapore's Wildlife'.

Lesson Development:

- The teacher will invite the children to play a game, "Animal Relay".
- The children will be divided into four different groups.
- The teacher will explain the rules of the game.
- The teacher will mark the start and finish line within the classroom.
- The teacher will ask the children to move like the animal in the picture card flashed by the teacher.
- The group that is able to make the movement correctly will be given a point and will be asked to move a step forward.
- The teacher will flash more picture word cards.
- The game ends when a group crosses the finish line.

Closure:

- The children will make their favourite animal using the playdough.
- The children will think about how they can take care and protect their favourite animal.
- Teacher will note down the childrens' thoughts and assist the children with formulating captions for their artwork.

Resources:

NParks' 'Peeky the Pangolin Explores Singapore' DVD



NParks' Picture Word Cards



Front

Back

Lesson 3: I Spy a Butterfly

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Ask questions for clarification and to obtain information
	Learning Goal 2:	Recall and talk about experiences and events
Aesthetic and Creative expressions	Learning Goal 1:	Express and represent ideas, experiences and feelings (e.g. personal event, fieldtrip) through artworks
	Learning Goal 2:	Discuss about their peers' artworks
Discovery of the world	Learning Goal 1:	Ask questions and seek answers by gathering information from different sources
	Learning Goal 2:	Be aware of the need to conserve natural resources in their everyday life by reducing consumption, reusing and recycling materials

Lesson objectives:

Children will be able to:

- See different types of butterflies in a butterfly lodge
- Identify the life cycle of a butterfly
- Create an artwork of a butterfly they spotted

Learning disposition:

1. Sense of wonder and curiosity

Strategy: Letting children explore the nature and the environment using investigatory tools.

What to prepare:

- NParks' 'Peeky the Pangolin Explores Singapore, a City in a Garden' DVD
- Magnifying glass
- Binoculars
- Clipboards
- Art materials
- Camera

What to do:

Tuning In:

- The children will watch the NParks video 1: 'Peeky the Pangolin Explores Singapore, a City in a Garden'.
- The teacher will ask the following questions:
 - a. What can you usually find in parks and gardens?
 - b. What do you like about parks and gardens?
 - c. What is a park connector?
 - d. Is there a park connector near your home?
 - e. Have you been to a nature reserve? What kind of animals have you seen there? What kind of animals can you see there?
 - f. Why are gardens/parks/nature reserves important to Singapore?

Lesson Development:

- The teacher will explain to the children that they can find different plants and animals in the zoo as well as in their surroundings.
- The teacher will bring the children on a field trip to the Butterfly Lodge at Sembawang.
- During the field trip, the teacher will encourage the children to look out for as many butterflies as they can.
- They will be encouraged to spot and recognise the different butterfly patterns.
- The children will be encouraged to observe the host plants that each butterfly goes to and capture it using the camera, magnifying glass and binoculars.

Closure:

- The children will create a butterfly-shaped appreciation card for their parents.

Resources:

NParks' 'Peeky the Pangolin Explores Singapore' DVD



Lesson 4: Let's make a terrarium with our parents!

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Ask questions with the intention to clarify and to obtain information
	Learning Goal 2:	Use adjectives to describe attributes of objects (e.g. colour, size) and to make comparisons (e.g. bigger/smaller)
Mathematical Thinking	Learning Goal 1:	Compare groups of objects and communicate the differences based on one to two attributes
	Learning Goal 2:	Order and compare two or more things in sequence
Discovery of the world	Learning Goal 1:	Ask questions and seek answers by gathering information from different sources
	Learning Goal 2:	Be aware of the need to conserve natural resources in their everyday life by reducing consumption, reusing and recycling materials
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them

Lesson objectives:

Children will be able to:

- Know that there are different plants and trees in Singapore
- Identify parts of a tree and its functions.
- Create a terrarium and learn how to take care of their own plant
- Observe and record the growth of plants

Learning disposition:

1. Sense of wonder and curiosity

Strategy: Letting the children explore the nature and the environment using investigatory tools.

2. Appreciation

Strategy: Explore and appreciate the nature surrounding them.

What to prepare:

- NParks' 'Peeky the Pangolin Explores Singapore' DVD
- Magnifying glass
- Materials for making a terrarium
- Seeds/plants
- Camera
- Guest speaker (Community Gardener)
- NParks' ['Make Your Own Garden in a Dish and Terrarium'](#) Poster

What to do:

Tuning In:

- The teacher will gather the children in a semi-circle.
- Together they will watch the NParks' video 2: 'Pecky the Pangolin Explores Singapore's Trees'.
- The teacher will ask the following questions:
 - a. Where did Pecky visit to explore Singapore's trees?
 - b. Can you name me some of the trees that Pecky saw in the video?
 - c. What are the different parts of a tree? What are the uses of each part of the tree?
 - d. How can we care for Singapore's plants and trees?
 - e. Why did Pecky the Pangolin point out that a tree is like an umbrella?
 - f. Why do you think plants and trees are important?

Lesson Development:

- The teacher will inform the children that a very special guest has been invited to teach the class on how to make a terrarium.
- The gardener will explain the meaning of a terrarium and how to make one.
- Together with their parents, the children will make a terrarium using the materials prepared beforehand.

Closure: Show and tell

- The children and their parents will discuss their favourite part of the activity and share about the features of their unique terrarium.

Resources:

NParks' 'Peeky the Pangolin Explores Singapore' DVD



NParks' 'Make Your Own Garden in a Dish and Terrarium' Poster



This lesson plan was developed by early childhood educators from My First Skool (Block 528, Hougang Avenue 6) using the NParks' Pre-school Educational Resource Package on Singapore, a City in a Garden, and its Biodiversity.

Lesson 5: Let's cheer!

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Ask questions to seek clarifications and to obtain information
	Learning Goal 2:	Use adjectives to describe attributes of objects (e.g. colour, size) and to make comparisons (e.g. bigger/smaller)
Aesthetic and Creative Expression (Music and movement)	Learning Goal 1:	Use body percussion and/or instruments to accompany songs, chants, stories and rhymes
	Learning Goal 2:	Create simple rhythmic and melodic accompaniment using classroom musical instruments
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them
	Learning Goal 2:	Recognise that each of them is unique

Lesson objectives:

Children will be able to:

- Identify simple things they can do to protect the trees around them
- Compose their own cheer about taking care of plants/animals
- Use body percussion/ musical instruments to accompany the cheer

Learning disposition:

1. Appreciation

Strategy: Explore and value nature through music and movement

2. Perseverance

Strategy: Engage the children in composing a cheer that requires substantial effort to complete

What to prepare:

- NParks' Picture Word Cards
- Butcher paper
- Camera
- Musical instruments
- 'Let's water the plants today' song
- NParks' Flower and Animal Posters

What to do:

Tuning In:

- The teacher will gather the children in a semi-circle.
- The children will watch a video about taking care of plants 'Let's water the plants today'.
- The children will sing the song using actions.

Lesson Development:

- The teacher will invite the children to compose a cheer about taking care of plants/animals.
- The teacher will encourage the children to use musical instruments to accompany the cheer that they had created.
- The teacher will write the cheer that the children made on a butcher paper and let the children practice the cheer.

Closure:

- The teacher will record a video of the cheer that the children created.

Extension:

- The teacher will encourage the children to change the lyrics of the cheer using the picture word cards and the flower and animal posters.

This lesson plan was developed by early childhood educators from My First Skool (Block 528, Hougang Avenue 6) using the NParks' Pre-school Educational Resource Package on Singapore, a City in a Garden, and its Biodiversity.

Lesson 6: Take me home!

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Ask questions to seek clarifications and to obtain information
	Learning Goal 2:	Use adjectives to describe attributes of objects (e.g. colour, size) and to make comparisons (e.g. bigger/smaller)
Mathematical Thinking	Learning Goal 1:	Compare and contrast two or three sets of objects according to different attributes
	Learning Goal 2:	Collect, organise and display data using objects of equal units
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them
	Learning Goal 2:	Recognise that each of them is unique

Lesson objectives:

Children will be able to:

- Compare and contrast the similarities and differences of the animals in the NParks' 'Peeky the Pangolin Explores Singapore' CD and Picture Word Cards.
- Match the animals to their natural habitats.
- Create a habitat chart.

Learning disposition:

3. Appreciation

Strategy: Explore the value of nature through music and movement.

4. Sense of wonder and curiosity

Strategy: Show enthusiasm and enjoyment in exploring nature.

What to prepare:

- NParks' 'Peeky the Pangolin Explores Singapore' CD
- NParks' Animals Poster
- NParks' Picture Word Cards (of animals)
- Peeky the Pangolin puppet
- Hula-hoops
- Pictures of Singapore's nature reserves

What to do:

Tuning In:

- The teacher will gather the children in semi-circle.
- The children will watch the NParks' video 3: 'Peeky the Pangolin Explores Singapore's Wildlife'.

The teacher can ask the following questions after the video:

- a. Where can we find animals apart from zoo?
- b. Why do you think it's important to know where the animals live?
- c. How can we help protect the natural habitats of animals?

Lesson Development:

- The teacher will show different photos of nature reserves to the children and place the pictures inside the hula-hoops scattered around the classroom.
(Each hoop should contain only one picture)
- The teacher will use a Peeky the pangolin puppet to explain to children the different habitats found in the various nature reserves.
- Peeky the Pangolin puppet will explain to children that the animals featured on the picture word cards need to find their way home (the different nature reserves).
- Peeky the pangolin will choose volunteers to help the animals find their way home.
- The activity will continue until all the animals have found their way home.

Closure:

- The children will make a chart according to the way they categorise the animals.

Lesson 7: Poster Making!

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Express or elaborate ideas using appropriate language features
Aesthetic and Creative Expression	Learning Goal 1:	Express and represent ideas, experiences and feelings through artworks
Discovery of the World	Learning Goal 1:	Make simple recordings of observations through drawing or writing
	Learning Goal 2:	Conduct simple investigations to find out why things happen and how things work
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them
	Learning Goal 2:	Recognise that each of them is unique

Lesson objectives:

Children will be able to:

- Know the dos and don'ts in a nature area in an effort to conserve Singapore's biodiversity
- Express their feelings through drawing and writing
- Work as a group and cooperate with each other

Learning disposition:

1. Appreciation

Strategy: Explore the value of nature through art.

2. Sense of wonder and curiosity

Strategy: Show enthusiasm and enjoyment in exploring nature.

What to prepare:

- NParks' Flowers and Animals Posters
- Butcher paper
- Writing and drawing materials
- Photographs of dirty and clean environment

What to do:

Tuning In:

- The teacher will gather the children in semi-circle.
- The teacher will show two different photographs depicting both a dirty and a clean environment.
- The teacher will encourage the children to share their thoughts about the pictures.

Lesson Development:

- The teacher will show the animals and flowers posters to the children.
- The teacher will inform the children that the posters are used to give information and are usually accompanied with pictures or photos.
- The teachers will let the children know that they will be making a poster (about the topics listed below) to provide their classmates with information and to share with them how they can help to conserve Singapore's biodiversity.
 - a. Keep our gardens clean
 - b. Do not litter
 - c. Love the plants and animals
 - d. Do not feed the animals
 - e. Do not keep animals in captivity

Closure:

- The children will do a show and tell about their posters to other classes.
- The teacher can also check if the Residents' Committee of the area is open to the idea of displaying these posters in the neighbourhood.

Resources:

NParks' Flowers and Animals Posters



Lesson 8: Field Trip to Sungei Buloh!

Learning areas	Learning Goals	
Discovery of the World	Learning Goal 1:	Make simple recordings of observations through drawing or writing
	Learning Goal 2:	Conduct simple investigations to find out why things happen and how things work
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them
	Learning Goal 2:	Recognise that each of them is unique

Lesson objectives:

Children will be able to:

- Experience hands-on learning through exploration of a natural environment.

Learning disposition:

1. Appreciation

Strategy: Show different ways of how one can appreciate the different plants and animals that we have in Singapore.

2. Sense of wonder and curiosity

Strategy: Show enthusiasm and enjoyment in exploring nature.

What to prepare

- Butcher paper
- Writing and drawing materials
- Magnifying glass
- Binoculars
- Camera
- Clipboards
- NParks' Picture Word Cards

What to do:

Tuning In:

- The teacher will gather the children in semi-circle.
- The teacher will let the children choose a picture word card and be encouraged to look for that particular plant or animal on their card during their field trip.
- The children will make a K-W chart.

Lesson Development:

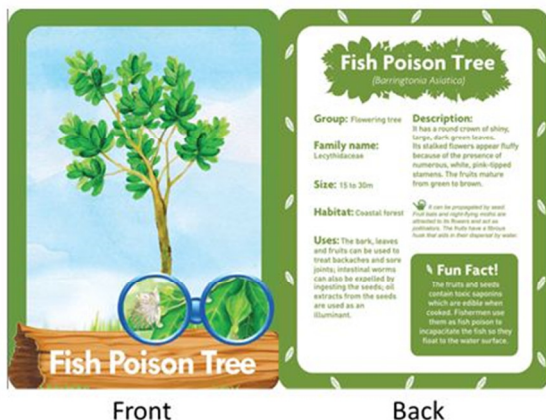
- The teacher will remind children of the rules to adhere to when they go outdoors.
- The teacher will remind children of the dos and don'ts in a garden/park/nature reserve.
- The teacher will let the children explore the environment using their investigatory tools.

Closure:

- The children will complete the K-W-L chart.

Resources:

NParks' Picture Word Cards



Lesson 9: Show and Tell

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Enjoy listening to stories, rhymes and poems
	Learning Goal 2:	Recall and talk about experiences and events
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them
	Learning Goal 2:	Recognise that each of them is unique
Aesthetic and Creative Expression (Art and Craft)	Learning Goal 1:	Experiment with a variety of art techniques (e.g. crayon etching, cotton-bud painting, splatter painting)
	Learning Goal 2:	Experiment with elements of art to create a piece of artwork (e.g. mix paints to get different colours or shades of colours, use shapes and lines to create patterns)
	Learning Goal 3:	Express and represent ideas, experiences and feelings (e.g. personal event, fieldtrip) through artworks

Lesson objectives:

Children will be able to:

- Understand the importance of a natural habitat
- Create an art piece to document their learning during the field trip.

Learning disposition:

1. Appreciation

Strategy: Show different ways of how one can appreciate Singapore's biodiversity.

2. Sense of wonder and curiosity

Strategy: Show enthusiasm and enjoyment in exploring nature.

What to prepare:

- 'There was a Tree' Song
- NParks' Picture Word Cards
- Camera

What to do:

Tuning In:

- The teacher will gather the children in semi-circle.
- The teacher will play the song 'There was a Tree'.
- The children will sing the song using actions.

Lesson Development:

- The teacher will ask the children to take out the art pieces that they have created with their parents during their previous field trip to Sungei Buloh Wetland Reserve.
- The teacher will encourage the children to share the inspiration behind their art piece.
- The children will take turns to share.
- The teacher will document the children's sharing.

Closure:

- The teacher will facilitate a Language Experience Approach lesson for the children.

Resources:

NParks' Picture Word Cards



Lesson 10: Promise Tree!

Learning areas	Learning Goals	
Language and Literacy	Learning Goal 1:	Enjoy listening to stories, rhymes and poems
	Learning Goal 2:	Recall and talk about experiences and events
Self and Social Awareness	Learning Goal 1:	Show care, concern and respect to the living things around them
	Learning Goal 2:	Recognise that each of them is unique

Lesson objectives:

Children will be able to:

- Appreciate the functions of the different parts of the tree
- Express respect to the flora and fauna

Learning disposition:

1. Appreciation

Strategy: Show different ways of how one can appreciate Singapore's biodiversity.

2. Sense of wonder and curiosity

Strategy: Show enthusiasm and enjoyment in exploring nature.

What to prepare:

- Coloured paper
- Writing materials
- Art materials (scissors, ice cream sticks)
- Storybook, "The Giving Tree"

What to do:

Tuning In:

- The teacher will gather the children in semi-circle.
- The teacher will read the storybook, “The Giving Tree” by Shel Silverstein

Lesson Development:

- The teacher will show a tree trunk to the children and ask them what they think is missing. (leaves)
- The teacher will distribute leaf cut-outs to children and let them express in writing on the leaf cut-outs on how they can take care of nature.
- The teacher will explain to children that they will be creating a “Promise Tree” in class to express their love for nature.
- The leaves will be pasted onto the top of the tree trunk to make a promise tree with leaves.

Closure:

- The children will show their leaves to their friends and explain why they made that promise to nature.

Resources:

The Giving Tree, By Shel Silverstein

