

THEME: Singapore A City In A Garden (1)**LESSON PLAN – DISCOVERY OF THE WORLD**

Topic: A City in a Garden

Learning Goals

Learning Area	Learning Goals
Language & Literacy	Learning Goal 1 Listen for information and enjoyment
	Learning Goal 2 Speak to convey meaning and communicate with others
	Learning Goal 3 Read with understanding and enjoyment
Self & Social Awareness	Learning Goal 1 Develop an awareness of personal identity
	Learning Goal 2 Manage their own emotions and behaviours
	Learning Goal 3 Show respect and diversity
	Learning Goal 4 Communicate, interact and build relationships with others
Environmental Awareness	Learning Goal 1 Show an interest in the world they live in

Lesson Objectives

The children will be able to:

1. Respond and participate in discussions pertaining to the book 'An adventure in a City in a Garden'.
2. Illustrate and document how they can respect their environment.
3. Work on an activity project at home together with their family about their choice of flora or fauna.

Dispositions

(P) - Perseverance

(R) - Reflectiveness

(A) - Appreciation

What to Prepare

- 'An adventure in a City in a Garden' by Hui Ling Chua, published by NParks
- Pictures of Singapore's greenery
- Markers
- Drawing paper
- Butcher paper

Tuning In

1. Get the children to share what they think when they hear the word 'city' and the word 'garden' and record their responses.
2. Share images showing the Singapore Botanic Gardens, Gardens by the Bay and Marina Bay Sands vicinity and get them to describe each photo. Ask the children the following questions:
 - Can you share about some garden/parks/nature reserves that you have visited in Singapore?
 - What do they look like?
 - How are they unique or special?
3. Share with the children that Singapore is home to a large variety of animal and plant species, which can be found in their natural habitats. Be it tropical rainforests, mangroves or coral reefs, there is rich biodiversity to be found in our City in a Garden.

Lesson Development

1. Read the book 'An adventure in a City in a Garden'.
2. Pause at several illustrations or passages to ask the children the following questions:
 - Why do you think there are many animals near the water (e.g. Purple Heron)?
 - Can you share some personal experiences or encounters that the two children in the book had with the animals and plants?
 - What do you think the animals in the book eat? How do they get their food?
 - Where do they live? How do they make their own house?
3. Get the children to brainstorm on the following topics. Document the children's ideas:
 - Why is it important for Singapore to have a city and a garden? (Pictures featuring Singapore as a City in a Garden can be shown)

- Biodiversity is the variety of living things in a given place – whether a small stream, an extensive desert, all the forests in the world, the oceans, or the entire planet. Biodiversity is short for ‘biological diversity’.
 - Show them the pictures on pages 8 and 9 of the book. Point out some of the biodiversity present in the pond.
 - What can we do to respect biodiversity?
 - How should we respond when we encounter such wildlife?
4. Get the children to draw, label and do a short write-up on how they can sustain or respect biodiversity in Singapore.

Closure

1. Explain to the children that each child will get to pick a card from the set of picture word cards. They will go home and do research on the selected species with their family. They are to draw or paint the animal or plant that they have chosen and do a short write up about what new information they have gathered with their family members.
2. Give each child a piece of drawing paper for them to bring home and work on their project.

Teacher’s note: It would be meaningful to get parents to present the show-and-tell together with their children.

THEME: Singapore A City In A Garden (Flora) (2)
LESSON PLAN – DISCOVERY OF THE WORLD
Topic: A City in a Garden

Learning Goals

Learning Area	Learning Goals	
Language & Literacy	Learning Goal 1	Listen for information and enjoyment
	Learning Goal 2	Speak to convey meaning and communicate with others
	Learning Goal 3	Read with understanding and enjoyment
Self & Social Awareness	Learning Goal 1	Develop an awareness of personal identity
	Learning Goal 2	Manage their own emotions and behaviours
	Learning Goal 3	Show respect and diversity
	Learning Goal 4	Communicate, interact and build relationships with others
Environmental Awareness	Learning Goal 1	Show an interest in the world they live in

This lesson plan was developed by early childhood educators from PCF Sparkletots (Tampines Changkat) using the NParks’ Pre-school Educational Resource Package on Singapore, a City in a Garden, and its Biodiversity.

Lesson Objectives

The children will be able to:

1. Respond and participate in discussions pertaining to the book 'An Adventure in a City in a Garden'.
2. Grow, observe and care for a ginger plant.
3. Draw their dream garden home.

Dispositions

(P) - Perseverance
(R) - Reflectiveness
(A) - Appreciation

What to Prepare

- 'An adventure in a City in a Garden' by Hui Ling Chua, published by NParks
- NParks' Flowers and Fruits Posters
- NParks' Snap Card Game
- Pictures of Singapore's greenery
- Drawing paper
- Markers
- Butcher paper
- A piece of ginger from the grocery store Container
- Soil
- Water

Tuning In

1. Get the children to share and describe some of the gardens or parks that they visited in Singapore and get them to describe the differences between the places mentioned.
2. Show the children pictures of the following places and encourage them to describe what they see.
 - *Singapore Botanic Gardens*
 - *Gardens by the Bay*
 -
 - *Neighbourhood Parks*

Lesson Development

1. Read the book 'An adventure in a City in a Garden'.

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2. Pause at several illustrations or passages to ask the children the following questions:
 - Why do we need plants?
 - Why do animals need plants?
 - What types of plants are good for you?
 - What is your favourite plant?
3. Carry out the following activities in the garden and try to show children the similarities of the concept of a City in a Garden and a school's garden. Get them to discuss the benefits of having a garden within their school.
4. Inform the children that they will be growing ginger in their mini garden in groups.
5. Introduce ginger and get them to describe it after exploring it with their five senses.
6. Explain the process of growing ginger to the children. (Instructions are provided below.)
7. Add on how they can help to prevent mosquito breeding in their plants (Display NEA's Beat the Mozzies poster.)
8. Inform the children that they are to plan, draw and label a home in a garden, or in other words their own garden home. Encourage the children to make references to NParks' flowers and fruits posters on display for ideas of what to draw.
9. Divide the group of children into two groups
 - Group 1 will work on their ginger plants first
 - Group 2 will work on their drawing of their own garden home first.

Teacher's note: Children who have completed their work ahead of given time may play the NParks' Snap Card Game

10. When both groups are ready, get them to switch the activities so that every child is able to complete both sets of activities.

Closure

Get the children to share their drawing of garden homes with their peers in the classroom. Suggest to the children alternatives to the ginger such as onions that they can plant at home.

Instructions for the Ginger Plant

Adapted from: <http://www.instructables.com/id/Grow-Ginger-as-a-Houseplant/?ALLSTEPS>

Step 1: Rinse and Soak your Ginger

Step 2: Prepare your Container

Step 3: Plant your Ginger

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Step 4: Wait and Enjoy

Step 5: Results

THEME: Singapore A City In A Garden (Fauna) (3)
LESSON PLAN – DISCOVERY OF THE WORLD
Topic: A City in a Garden

Learning Goals

Learning Area	Learning Goals
Language & Literacy	Learning Goal 1 Listen for information and enjoyment
	Learning Goal 2 Speak to convey meaning and communicate with others
	Learning Goal 3 Read with understanding and enjoyment
Self & Social Awareness	Learning Goal 1 Develop an awareness of personal identity
	Learning Goal 2 Manage their own emotions and behaviours
	Learning Goal 3 Show respect and diversity
	Learning Goal 4 Communicate, interact and build relationships with others
Environmental Awareness	Learning Goal 1 Show an interest in the world they live in

Lesson Objectives

The children will be able to:

1. Respond and participate in discussions pertaining to the book 'An Adventure in a City in a Garden'.
2. Learn about Singapore's biodiversity through the Peeky the Pangolin videos and WildCities Singapore.
3. Create an art piece depicting the biodiversity that can be found in two different habitats – waterways and on trees.

Dispositions

(P) - Perseverance
(R) - Reflectiveness
(A) - Appreciation

What to Prepare

- 'An Adventure in a City in a Garden' by Hui Ling Chua, published by NParks

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- NParks' 'Peeky the Pangolin Explores Singapore' CD
- NParks' Animals Poster
- Photos of Singapore's greenery
- Drawing paper
- Butcher paper
- Markers

Tuning In

1. Play the video of Peeky the Pangolin to children and ask them the following:
 - *Can you share some of your personal encounters to such places if you have been there?*
 - *Can you describe these places in detail to your peers and teacher?*
 - *What are your opinions about such places?*
2. Play the video of WildCities Singapore:
 - Episode 1: <https://vimeo.com/126876327>
 - Episode 2: <https://vimeo.com/126876328>
 - *Can you recall some of the animals living among or around us in the video (e.g. pangolin, monkeys, oriental-pied hornbills)?*
 - *Why do you think biodiversity is important in a city like Singapore?*

Lesson Development

1. Read the book 'An adventure in a City in a Garden'.
2. Ask the children the following questions to elicit responses and discussions:
 - What are the different kinds of habitats that you have come across in the books or video?
 - Can you describe them? (The teacher should record their responses.)
 - What do you want to learn more about?
3. Get the children to brainstorm on the following topics. Record the ideas from the children.

- What is a habitat?
 - What do you need in a habitat?
 - What can you find in a habitat and why?
4. Divide the children into groups of two. Each group is to create an art piece depicting the biodiversity that can be found in two different habitats – waterways and on trees.
 5. Allocate specific tasks required for them to do in their own groups.
 - On a large piece of drawing paper, the two children will draw/paint out the background,
 - draw the fauna that they can find in the habitat and
 - draw the flora that they can find in the habitat.

Teacher's note: Encourage the children to refer to the NParks' animal poster to aid them in their drawings.

Closure

1. With the photos taken during the process of the project, get the children to write down about the process.
2. Work with reusable and recycled materials that can be found around the centre to prepare the art piece. The children will be encouraged to conduct a show and tell session of their work.
3. The children can be brought to places such as Sungei Buloh Wetland Reserve, Pasir Ris Park, Singapore Botanic Gardens, Pulau Ubin for the children to gather first hand understanding of Singapore's biodiversity.