

PRE-SCHOOL

Learning Trail

Kallang River
@ Bishan-Ang Mo Kio Park







Learning Trail at Kallang River @ Bishan - Ang Mo Kio Park



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Pre-trail

Approximate Duration: 2 hours*

(*Please note that the stated duration is only an estimation and the following activities are merely suggestions. The teacher/ facilitator is free to choose and conduct any activities deemed suitable for the learning needs and abilities of his/ her students.)

*The trail is tied neatly with the water story so as to keep up with the 'adventure mode' of children.

| Facilitators' Notes/ Activities | Time | Materials |
|--|------------|-----------|
| <p>Dramatic Scenes</p> <p>Learning Objectives:</p> <ul style="list-style-type: none">➤ Students will understand that water is an important and scarce resource in Singapore.➤ Students will learn that conservation of water (a precious resource) is crucial and important for Singapore's survival and sustainability. <p>Procedure:</p> <ul style="list-style-type: none">❖ Prior to the activity, teacher will arrange for some water taps in the common toilets to be turned off.❖ After the students have finished playing in the playground (or similar activity), teacher will direct them to the toilet and instruct them to wash up as per normal.❖ The students will attempt to turn on the tap, only to discover that there is no water running through some taps.❖ Teacher will then instruct the students to wash their hands with the few taps available.❖ After the wash-up, teacher can ask questions and solicit responses from the students regarding water as a precious resource in Singapore.❖ Some suggested questions include:<ul style="list-style-type: none">○ How did you feel when you saw no water coming out of the water tap(s)?○ Did you feel scared/ angry/ frustrated? Why so?❖ This exercise aims for students to experience the inconvenience of not having enough water to satisfy our needs. | 20 minutes | -- |

| | | |
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| <p>Water Rationing Explanation Activity</p> <ul style="list-style-type: none"> ❖ To start, the teacher to explain how water scarcity will eventually lead to water rationing. ❖ Printed pictures of past water rationing exercises can be shown. ❖ Some suggested questions include: <ul style="list-style-type: none"> ○ Did you find it troublesome to queue up to wash your hands earlier? ○ That must be how the people in the picture felt like too! How long do you think it takes to get water now? ○ When water is scarce, water rationing will occur! Water rationing is a very inconvenient and slow process. Saving water is thus very important and especially for Singapore, where water resources are scarce. | 5 minutes | Pictures of water rationing in the past |
| <p>K-W-L (Know-What-Learn)</p> <ul style="list-style-type: none"> ❖ K-W-L charts are graphic organizers that help teachers organize information before, during and after a lesson. ❖ They can also be used to engage students in a new topic, activate prior knowledge, share unit objectives, and monitor learning. <p>Teacher to make the K-W-L charts. Column 1: What do you Know about the topic? Column 2: What do you Want to know? Column 3: What did you Learn?</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➤ To activate prior knowledge of the students on the topic “Water in Singapore”. (K) ➤ To arouse interest in students by asking them to suggest things they would like to know with regards to water matters/issues in Singapore. (W) ➤ To record what the students have learnt at the end of the lesson/journey. (L) <p>Procedure:</p> <ul style="list-style-type: none"> ❖ Teacher will ask students questions to gain an insight on their prior knowledge on water issues and conservation in Singapore. ❖ Teacher can continue to arouse the interest of the students by asking suggested questions below: <ul style="list-style-type: none"> ○ Where do you think the water from our taps come from? ○ Where do we get our water? ○ Do you think Singapore has a lot of water? | 10 minutes | <p>K-W-L Chart:</p> <ul style="list-style-type: none"> ● Teacher to print out the K-W-L chart and paste it onto a piece of corrugated cardboard or vanguard sheet (<i>Refer to Annex 1.1</i>) |

| | | |
|--|------------|---|
| <ul style="list-style-type: none"> ○ How can you tell? ❖ Meanwhile, the responses of the students are recorded on the K-W-L sheet. ❖ After consolidating all the responses, teacher will leave the “L” part for the post trail session. | | |
| <p>Water Story</p> <ul style="list-style-type: none"> ❖ Teacher can read the Water Story to start students on a journey of discovery (learning trail) into water resources and issues in Singapore. <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➢ To prepare and stimulate the interest of the students for the learning trail. ➢ To introduce an element of competition to the trail to make it more fun for the students. ➢ To tie in the various activities of the trail to the water story and facilitate students’ understanding. <p>Procedure:</p> <ul style="list-style-type: none"> ❖ Teacher will read out the water story, either as a whole or section by section, depending on the learning needs and abilities of the students. ❖ Teacher is free to add creative elements/ hand gestures or ask questions to deepen/ enhance the learning experience of the students. ❖ Teacher may improvise and add explanations to help students understand the story. | 20 minutes | Water Story (Refer to Annex 1.2 and Annex 1.3) |
| <p>Water Song</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➢ To learn about the safety features of Kallang River @ Bishan - Ang Mo Kio Park through visual and auditory learning. <p>Procedure:</p> <ul style="list-style-type: none"> ❖ Teacher are strongly encouraged to use visual aids to facilitate students’ learning of the lyrics. ❖ Teacher may play the tune of “Old Macdonald” and sing the water song to help students familiarize with the lyrics and melody of the song. ❖ Teach the students the lyrics of the water song. Add the melody and sing the song together. | 20 minutes | (Optional) Water Song lyrics written on flipchart (Refer to Annex 1.4) |

| | | |
|---|------------|---|
| <p>Screening of water video – (if logistics allows)</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➤ To educate the students on the 4 National Taps of Singapore. ➤ To understand and learn the importance of water conservation. <p>Procedure:</p> <ul style="list-style-type: none"> ❖ Teacher to download the water video and set up the projector. ❖ Teacher to recap the earlier dramatic scenes and questions discussed. ❖ Teacher to give a brief introduction of the video. ❖ At the end of the video, the teacher can consolidate some learning points: <ul style="list-style-type: none"> ○ Water is a highly precious resource in Singapore. ○ It is important for all people living in Singapore to conserve water. ○ Every drop counts! ○ Water is crucial to Singapore's survival and sustainability. | 15 minutes | <p>Projector, water video</p> <p>Link: https://www.youtube.com/watch?v=5BGUT7BjPI0</p> |
| <p>Preparations for the actual trail</p> <p>Procedure:</p> <ul style="list-style-type: none"> ❖ Teacher to brief the students on the learning trail. ❖ Tell them to pray that Earth is not angry tomorrow, for if he is, then it may rain! | 5 minutes | (Refer to Annex 1.5) |

End of pre-trail

Actual Trail

Location: Kallang River @ Bishan - Ang Mo Kio Park, River Plains (the park with McDonald's)

Approximate Duration: 2 hours*

(*Please note that the stated duration is only an estimation and the following activities are merely suggestions. The teacher/ facilitator is free to choose and conduct any activities deemed suitable for the learning needs and abilities of his/ her students.)

| Facilitators' Notes/ Activities | Time | Materials |
|--|------------|----------------------------|
| Toilet Break before commencement of the trail. | 5 minutes | -- |
| <p>Station 1</p> <p>Location: Green roof (the sheltered area at Riverside Gallery - River Plains, opposite McDonald's)</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➤ To brief the students on the aims of the ABC Waters Learning Trail at Kallang River @ Bishan - Ang Mo Kio Park. ➤ To expose students to the safety measures and the safety node so that they understand the importance of safety when using the park. <p>Procedure:</p> <p>Introduction:</p> <ul style="list-style-type: none"> ❖ Recap on the learning points from the pre-trail and refresh students' memory on the water story (the quest to save Princess Aquarius by completing 3 tasks during the trail) and water song. ❖ Teacher to introduce and explain the aims of the learning trail. ❖ Conduct a safety briefing: <ul style="list-style-type: none"> ○ Inform the teacher immediately when you feel unwell, or are stung or bitten by an insect/ animal. ○ Always move in pairs/ groups and do not leave the group without permission from the teacher. ○ Hydrate yourself regularly. <p>Body:</p> <ul style="list-style-type: none"> ❖ The teacher to bring the students to the safety node and introduce its safety measures/ features. | 15 minutes | (Refer to Annex 2.1 – 2.3) |

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| <ul style="list-style-type: none"> ○ Safety node – in times of heavy rain as water level rises, the safety nodes will be activated. Park users will see the red and yellow flashing lights, hear warning announcements and sirens. ○ Warning sirens – go off when the water level rises and when a heavy rain warning is received. When the sirens go off, listen to the announcements and move out of the river to beyond the red markers. ○ Red markers – placed along the river. When water level rises, move away from the river, beyond the red markers (3 metres). ○ Safety lines – placed across the river. They will float with the water level and serve as an additional precautionary measure for river users. ○ Life buoys – placed along the river to serve as a precautionary measure in case of drowning in an emergency. <p>Conclusion:</p> <ul style="list-style-type: none"> ❖ Do a quick recap of what has been taught and discussed at the safety node: <ul style="list-style-type: none"> ○ What should you do when you hear the warning siren go off? ○ Why should we do so when the siren goes off? ○ What are the things we should not do in the park? ❖ Lead the students in the water song to reiterate the importance of safety in using the park and river. ❖ Refer the students to the 1st task of the water story – to cross the river via the stepping stones. | | |
| <p>Station 2</p> <p>Location: Shaded area near the stepping stones</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➤ To spot and identify the plants and animals found at Kallang River @ Bishan - Ang Mo Kio Park. ➤ To teach the students the different habitats that various animals and plants thrive in. ➤ To educate them the importance of keeping the river and park clean to support the biodiversity (and learn how everything collectively forms the macro-system). ➤ To develop the students' psychomotor skills. <p>Procedure:</p> <p>Introduction:</p> <ul style="list-style-type: none"> ❖ Puzzle Cubes and laminated pictures to be prepared. ❖ Read the water story and tell the students the task they have to complete. ❖ Teacher can arouse students' interest by asking: | <p>30 minutes</p> | <p>"2 × 2" cube puzzles</p> <ul style="list-style-type: none"> • 4 students to share a set of cube puzzle <p>(Refer to Annex 2.4)</p> |

| | | |
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| <ul style="list-style-type: none"> ○ Let's keep very quiet and listen to the sounds around us, what can you hear? ○ Look around you, can you see any animals? ○ Can you name any plants/ animals here? <p><u>Body:</u></p> <ul style="list-style-type: none"> ❖ Split the students into groups of 4. ❖ Bring each group to observe the biodiversity in the park. ❖ Some animals and plants that can be spotted and identified: <ul style="list-style-type: none"> ○ Lalang ○ Mimosa Plant ○ Little Egret ○ Scaly-breasted munia ○ Squirrel ○ Elephant Plant ○ Cattail ○ White-breasted Waterhen ❖ After the observation, students to be brought to the shaded area for cube puzzle activity. ❖ Each group to be given a set of cube puzzle. ❖ Teacher will show a picture of the animal/ plant and the students will piece the cube puzzle. <p><u>Conclusion:</u></p> <ul style="list-style-type: none"> ❖ Teacher to explain about the animals and plants on the cube puzzles. ❖ Recap the animals and plants the students have spotted, identified and learnt earlier. Suggested questions include: <ul style="list-style-type: none"> ○ Name some animals we saw earlier. ○ Can you name the plants we saw on the river bank just now? ○ Can someone describe its features? ○ Do you think we can bring them home with us? Why yes? Why not? ❖ Teacher to refer students to the 2nd completed task of the water story (piece the puzzles together) and instruct them to get ready for the next task. ❖ Teacher may reiterate the fact that Princess Aquarius is still asleep as the spell has not been lifted, and encourage the students to the next station to complete the last task. | | |
| <p>Station 3</p> <p>Location: Steps outside McDonald's</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➤ To learn the importance of keeping our waterways/ rivers clean. | 20 minutes | <ul style="list-style-type: none"> • 500ml plastic bottle • Scissors • Permanent marker |

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| <p>➤ To learn how water is purified through a simple filtration activity.</p> <p>➤ To highlight the scarcity of clean water and the importance of conserving water for all users (including animals and plants) in Singapore.</p> <p>Procedure:</p> <p><u>Introduction:</u></p> <ul style="list-style-type: none"> ❖ Gather the students and sit them on the stepped seats outside McDonald's. ❖ Read the water story and disclose the 3rd task (to clean the water). ❖ Teacher to scoop some water from the river using a cup/ bottle and ask students: <ul style="list-style-type: none"> ○ Are you thirsty? Do you want to drink some water? ○ Would you like some of the water here? ○ Why won't you drink this water? ○ Why is the water unclear? What are some reasons? ○ How can we clean the water? <p><u>Body:</u></p> <ul style="list-style-type: none"> ❖ Teacher to demonstrate a simple water filtration process. ❖ Filtration demonstration steps: <ol style="list-style-type: none"> 1. Place the cotton wool in the funnel. 2. Pour the river water through the funnel. 3. Swirl the bottle to allow the water to settle and be filtered by the cotton wool. 4. Wait for around 1 - 2 minutes for full filtration. ❖ After the filtration demonstration, allow the students to observe the difference between the "filtered water" and "original water". ❖ The water filtered with the cotton wool is cleaner. <p><u>Conclusion:</u></p> <ul style="list-style-type: none"> ❖ Discuss with the students: <ul style="list-style-type: none"> ○ Now that the water is cleaner, will you drink it? Why not? ○ How does Singapore clean our water? ○ What other methods are there to clean our water? ○ As a Singaporean, how can we help to keep our waterways/ rivers clean? ❖ Explain to the students that our water from the reservoirs goes through a very thorough process of filtration and cleansing before it reaches the taps in our home. ❖ Conclude with the following important message: | | <ul style="list-style-type: none"> • Masking/ cloth tape • Cotton pads • River water <p>(Refer to Annex 2.5)</p> |
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| <p>Part of water sustainability is to ensure that our precious water resource is free from pollution. It is essential that our reservoirs and waterways be kept clean so that it can help to reduce the cost of water treatment/ purification. Clean water is also important in supporting life and for recreational activities.</p> <ul style="list-style-type: none"> ❖ Teacher to ask students if they want to know if Princess Aquarius has woken up and lead the students back to the Green Roof. | | |
| <p>Station 4</p> <p>Location: Green roof (the sheltered area at Riverside Gallery - River Plains, opposite McDonald's)</p> <p>Learning Objectives:</p> <ul style="list-style-type: none"> ➤ Reflect on the trail and their learning. ➤ To sum up the learning points of the learning trail. <p>Procedure:</p> <p><u>Introduction:</u></p> <ul style="list-style-type: none"> ❖ Students to sit in a circle to facilitate discussion. ❖ Teacher to refer to the water story and ask the following questions: <ul style="list-style-type: none"> ○ Do you think Princess Aquarius is still sleeping? ○ Do you want to know if we have managed to save her from the spell cast by Earth? ❖ Teacher to read the last part of the water story to the students. (Princess Aquarius has woken up and the King would like to thank each and every one of the students for the work well done) <p><u>Body:</u></p> <ul style="list-style-type: none"> ❖ Pose the suggested questions below to help students in their reflection: <ul style="list-style-type: none"> ○ Did you enjoy the trail? ○ What did you enjoy the most? Why? ○ What have you learnt from the trail today? ○ Why should we protect/ conserve our water? ○ What can we do to protect our waters? ❖ The teacher can also ask the following questions: <p>Station 1 - Safety measures</p> <ul style="list-style-type: none"> ○ What should we do if it rains? ○ Should we play near the water when it is raining? ○ What should we do when we see the warning lights flashing? ○ What is the red safety marker for? ○ What is found in the river to ensure safety? | 15 minutes | -- |

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| <p>Station 2 - Biodiversity in the park</p> <ul style="list-style-type: none"> ○ What are some animals and plants found in Kallang River @ Bishan - Ang Mo Kio Park? ○ What is the name of this animal? (teacher to show the pictures of animals/plants) ○ How can we help these animals and plants to live well in the park? <p>Station 3 - Importance of keeping our waters clean</p> <ul style="list-style-type: none"> ○ Can we throw litter in the river? ○ Can you see any litter lying around? ○ What should we do? <p><u>Conclusion:</u></p> <p>❖ We have come to the end of our learning trail. We hope you have had fun learning about the park as well as the importance of water in our rivers and why we need to take good care of it. Please help to tell your parents about it as well so that everyone can do his/ her part in keeping our water clean!</p> | | |
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End of Actual Trail

Post-trail

Approximate Duration: 60 minutes*

(*Please note that the stated duration is only an estimation and the following activities are merely suggestions. The teacher/ facilitator is free to choose and conduct any activities deemed suitable for the learning needs and abilities of his/ her students.)

| Facilitators' Notes/ Activities | Time | Materials |
|---|-------------|--|
| K-W-L Chart Procedure: <ul style="list-style-type: none">❖ Students to look at the “K” and “W” columns of the chart.❖ Ask the students if they have managed to find answers to their questions under the “W” column.❖ Teacher to put down the students’ responses (learning/ answers) in the “L” column.❖ Students to share on what they have learnt and/ or their personal experiences on the trail.❖ Teacher to note the sharing on the “K” column.❖ Teacher will ask students if they have new questions that they would like to put under the “W” column. | 10 minutes | K-W-L chart |
| Art Gallery <ul style="list-style-type: none">❖ Teachers can print out photos taken during the trail.❖ Teachers can paste the photos of the students and the trail onto a wall/ noticeboard.❖ Ask the students to recall their most memorable memories of the trail.❖ Provide art and craft materials for students to draw them.❖ Students can share on their drawings.❖ Some suggested questions:<ul style="list-style-type: none">○ What have you drawn?○ What do you want to tell us about your drawing?○ Why did you draw this/ that? | 20 minutes | <ul style="list-style-type: none">• Blue-tack• Photos of students and the trail• Drawing materials• Paper |

End of Post-trail

Know-What-Learn Chart

| What do you K now? | What do you W ant to know? | What have you L earnt? |
|---------------------------|-----------------------------------|-------------------------------|
| | | |

Water Story

Our task

To save Princess Aquarius from Earth with approval of the fairies at Kallang River @ Bishan - Ang Mo Kio Park.

(Note: Facilitators are at their discretion to provide direct references to the Bishan Park. The story serves mainly to tie the stations together. Facilitators can also add in gestures/ actions to engage the students.)

Pre-Trail

Once upon a time, there lived a princess by the Green Roof castle over the river
So sparkling were her eyes as the river in the day
So pure was her heart as the water that ran through the land
So loving was her spirit as the animals
That she was named Princess Aquarius at birth

And all the fairies were invited to celebrate her birth

- **Flora**, the fairy of trees
- **Fauna**, the fairy of animals and
- **Water**, the fairy of rivers

All but one

- **Earth**, who was the ground that people worked on

He had a terrible temper
And rumbled and tumbled all through the year
Stomping through the land
So the King did not invite him

On the day of the celebration
Earth stormed into the palace
“A foolish act to have left me out
For this comes punishment no doubt!”
And he spoke
That on the 16th birthday of Princess Aquarius
The lands will shake
That her eyes will sparkle no longer
That her heart will be pure no more
That her spirit will never be free

So, the King begged for help
But the other fairies could not lift the curse

Finally, the other fairies

Blessed the princess
Would live as long as the rivers flowed
The waters were clean
And the animals roamed

So the King ordered
That the people protect the animals
Save the trees
And use the water in the river wisely

And so 15 years went by
As the princess, like a flower
Blossomed by the hour
The land was merry
With love from the fairies
But on the night before Princess Aquarius' 16th birthday
Earth swore he would make them pay
And the ground started rumbling and tumbling
And it shook and shattered
It fumbled and folded
And the castle sank into the ground

Princess Aquarius was no more
Her eyes, no longer of light
Her heart, now one of stone
Her spirit, one that stilled
And she fell into a deep sleep
And for that many would weep

(To ask the students: Do you want to save the princess?)

The villagers were determined to save their beloved princess
And so their quest began...

(Tell the students: To save the princess, we will have to go to the Kallang River @ Bishan – Ang Mo Kio Park! Will you help the villagers save the princess?)

Actual Trail

Station 1: Green Roof

The rains were many
And never too friendly
But the villagers had to cross the river
Before the rains made them shiver
Still Water the fairy was troubled
As the river would soon double

How then might they pass?

(Teacher to teach/ recap features of the safety node and Water Song.)

They saw the park had beacons (small lights on top of the node)
Whose lights never weaken

Always will the water level be raised
Should the red lights go ablaze (when the lights shine bright red, the water level will rise)
Thank the heavens for the lovely days
And the villagers soon headed their ways
Into the woods

Task 1: Students to cross the stepping stones at the river and proceed to the shaded area.

Station 2: In the shade near the bridge

But alas the curse was still not broken
Just as hope was lost
The three fairies appeared

Task 2: Learn about the plants and animals, piecing the cube puzzle.

And so the villagers set about to work

(Facilitators will guide students to observe the flora and fauna in the vicinity and complete puzzle.)

Station 3: Steps near McDonald's

As the last of the villagers heaved a sigh of relief
A chilly wind left an air of grief
With a rumble, Earth appeared
"So you have saved her spirit it seems"
"But the princess' heart has yet to be redeemed"
And he huffed
And he puffed
And he blew the trees down
The animals up
The fishes down
The animals down
The fishes up
"Good luck cleaning the river now!"

Task 3: Filtration activity, clean the waters.

Station 4: Green Roof

At long last, the river, trees and animals were back

And nature was back on track
The villagers rushed into the castle
Ran up the stairs in a hustle
Into the princess' chambers they stormed
A circle around her they formed

And there, they watched the princess
Free from all woes and (di)stress
Deep in her slumber
And they wondered

Had they failed?
And they watched
And they stared
And they peered

Then
Slowly but surely
The princess opened her eyes
With the same sparkle of the river in the day
Colour returned to her face
As her heart started beating once more
A yawn replacing her gentle snore
And then
As a rainbow appeared through the rain
Her spirit returned, free from pain

The villagers shouted with joy as the princess stood up
As the world was restored
And the land was happy again

Water Story Puppets



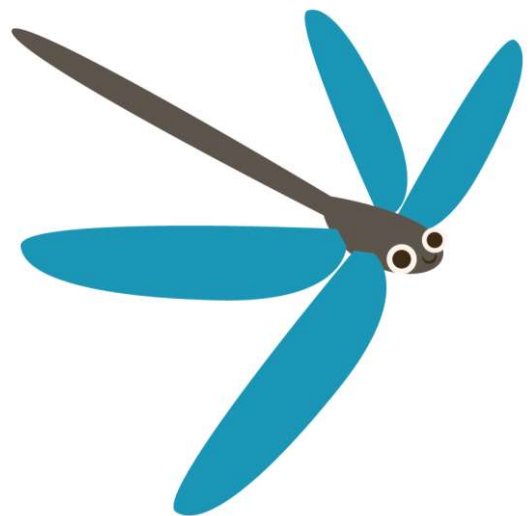
Earth



Flora



Water



Fauna



Princess Aquarius

Water Song

(Sing to Old Macdonalds tune)

We should **watch** for our safety,

Yes we should indeed!

Even when we're **having fun**,

Make sure **not** to **run**!

Red blinking lights,

Safety signs,

Look out for these warnings **everyone**!

Keep it **safe** and **have some fun**,

Safety's **number one**!

Suggested Actions/ Gestures

We - Point to yourself with both thumbs

Watch - Close your fingers into a tight palm and raise them over your eyes

Yes - Make a 'V' sign with your index and middle finger on both hands and wave them from side to side

Even - Start nodding head until 'Having Fun'

Having Fun - Pump fists into the air

Make sure - Point both index fingers forward

Not - Wag your index finger

Run - Mimic running by swinging both arms

Red blinking lights - Form a beak shape with your fingers, then open and close, open and close

Safety Signs - Draw a square in the air

Look out - Open your eyes big, then look left, straight and right (Action lasts for the whole sentence)

- Everyone** - Sweep one hand across the air in front of you
- Safe** - Close both fists and place them over your chest in a cross
- Have some fun** - Pump fists into the air
- Safety's** - Draw a big circle in the air with one finger
- Number One** - Raise the same finger high up in the air

Checklist for the actual trail

- Water bottle
- Umbrella/ Raincoat
- Sunblock (Optional)
- Mosquito repellent (Optional)

Map of Kallang River @ Bishan – Ang Mo Kio Park

Credits to: National Parks Board



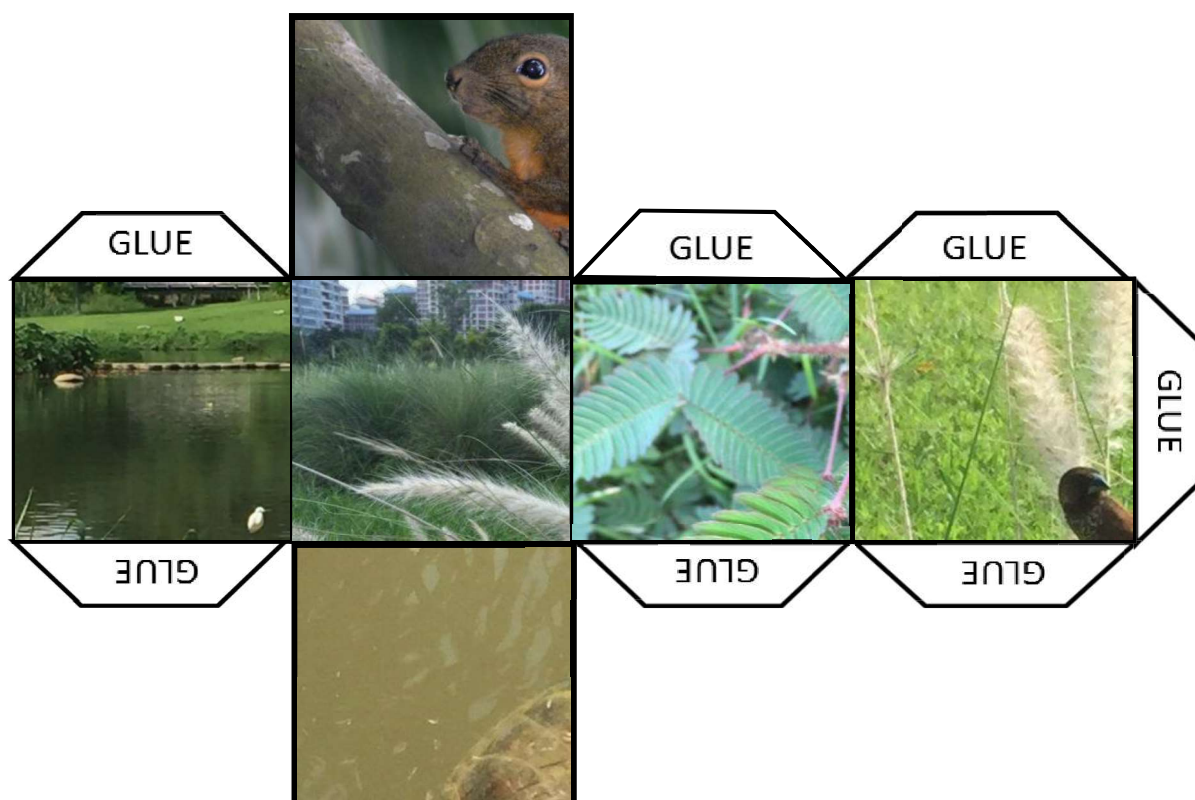
Red marker



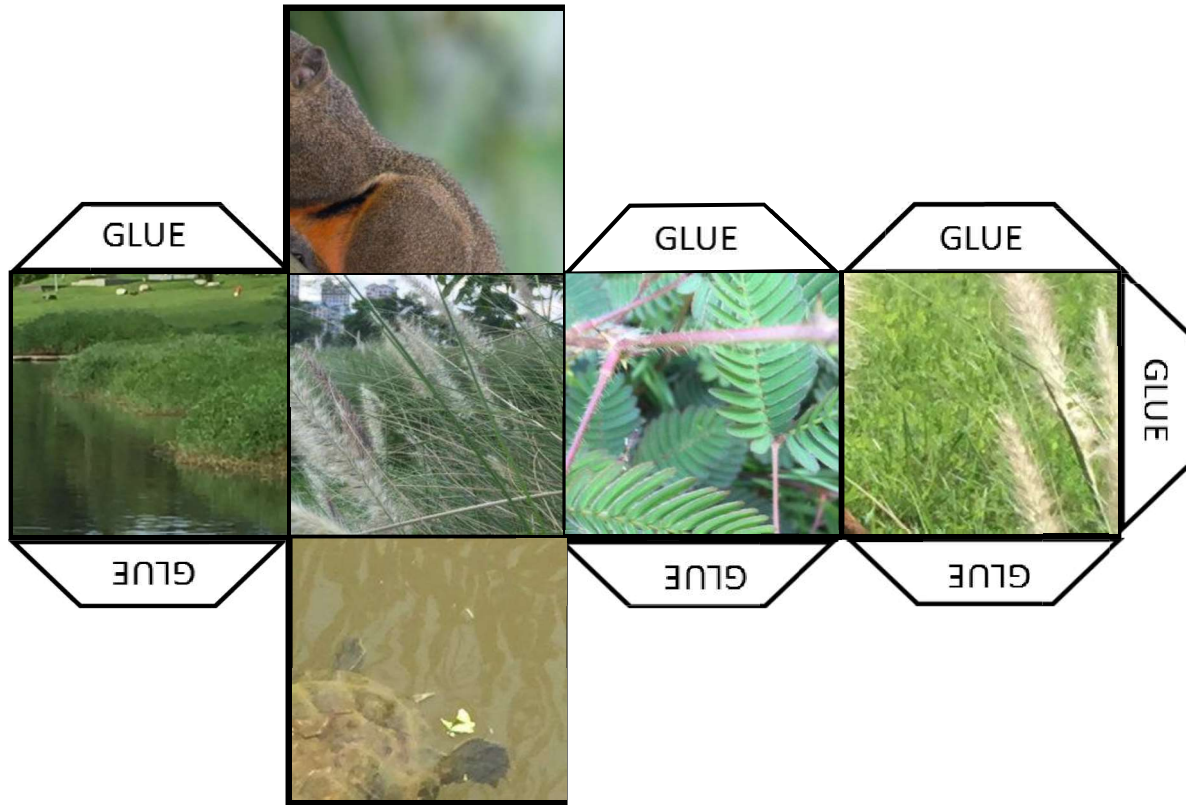
Safety node



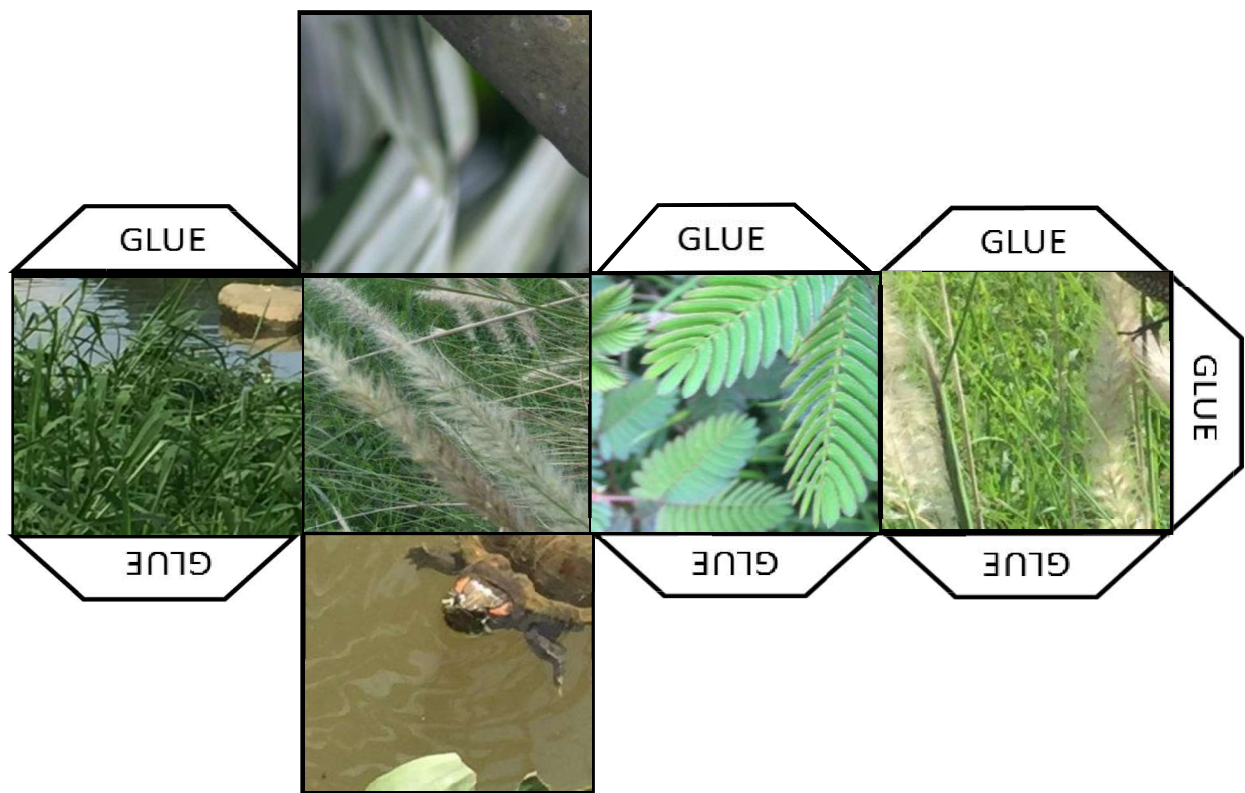
Cube Puzzle Templates



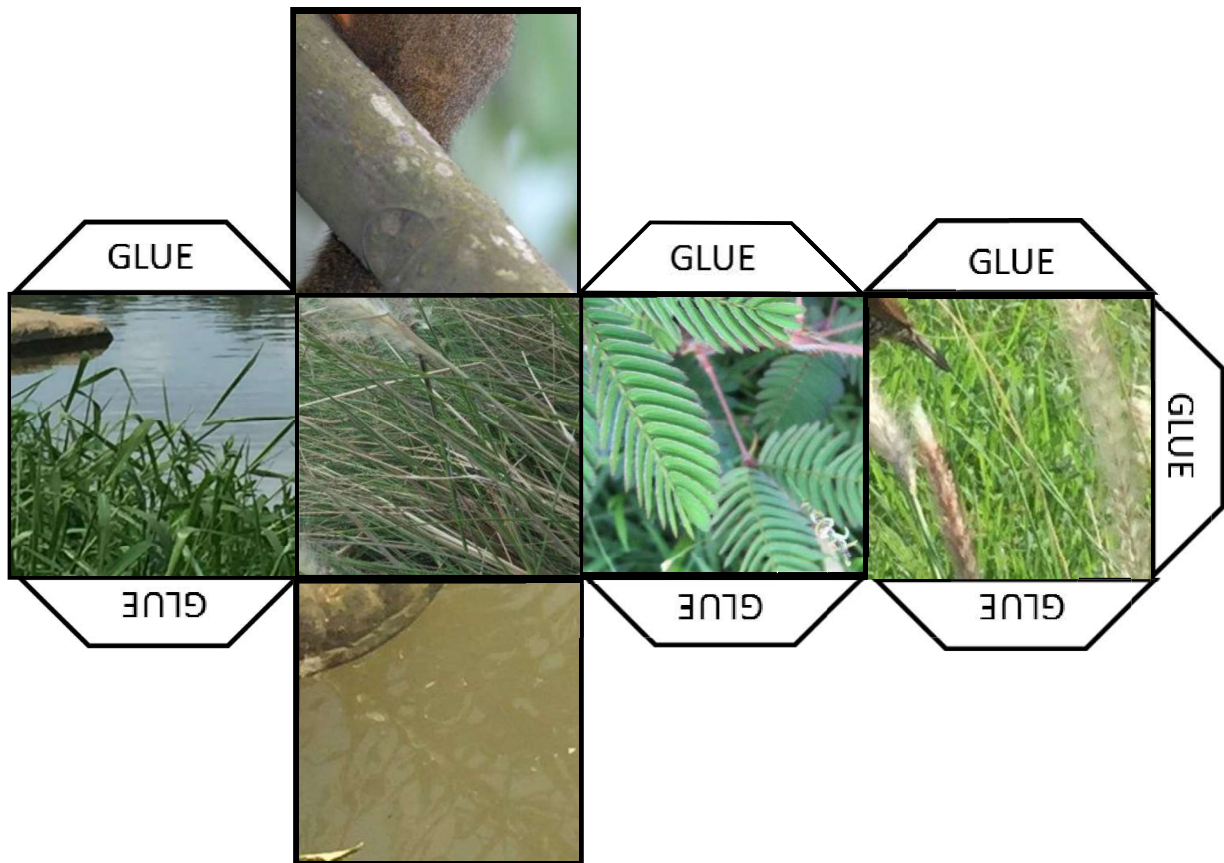
(Template for Cube 1)



(Template for Cube 2)



(Template for Cube 3)



(Template for Cube 4)

Station 2 Photos

Picture of Bird, Scaly-Breasted Munia



Picture of Mimosa Plant



Picture of Little Egret



Picture of Red-eared Terrapin



Picture of Lalang



Picture of squirrel (Photo credit: Cai Yixiong)



Filtration Activity

Materials needed for each set:

- 500ml plastic bottle
- Scissors
- Permanent marker
- Masking/ cloth tape
- Cotton pads
- River water

Recommended to have 4 students share a set of materials.

Instructions:



Step 1: With a permanent marker, indicate a line halfway across the 500ml plastic water bottle.



Step 2: Use a pair of scissors to cut along the line.



Step 3: Trim off all rough edges and use masking tape/ cloth tape to prevent cuts.



Step 4: Take 5-6 pieces of cotton pads and place it in the top half of the bottle.



Step 5: Collect some river water & start the filtration process!



Step 6: Pour the river water into the bottle.



Step 7: After the filtration process has ended, you will see that less residue is found in the bottle.



Step 8: Residue can be found on the cotton pad.

Water Story (Wet Weather Programme)

Our task

To save Princess Aquarius from Earth with the approval of the different fairies.

Actual Trail

Station 1: With white board or projection screen available

Setting: Layout some stable tables, chairs or mobile tunnels that can be connected so as to form the “bridge” for the children to cross over, similar to an obstacle course.

The rains were many
And never too friendly
But the villagers had to cross the river
Before the rains made them shiver
Still Water the fairy was troubled
As the river would soon double

How then might they pass?

(Teacher to teach/ recap features of the safety node and Water Song.)

They saw the park had beacons (small lights on top of the node)
Whose lights never weaken

(Show pictures of the beacons, safety node, life buoys and water markers via pictures or projection on screen)

The water level did raise
And the red lights went ablaze
But the rain was mere
And gone were their fears
And the villagers soon headed their ways
Into the woods

Task 1: Cross the “Bridge”.

Station 2: Within the same class

Setting: Facilitators will hide pictures of common flora and fauna found in the park within the classroom for a session of treasure hunt later.

But alas the curse was still not broken
Just as hope was lost
The three fairies appeared

Task 2: Learn about the plants and animals, piecing the cube puzzle.

(Go through with students pictures of flora and fauna that will be commonly found in the park. Thereafter, allow children to look around for all the hidden pictures. Once the students are back from the picture hunting, form them into groups of 4 max, to complete the puzzle using the puzzle cube. Show them the full picture one at a time.)

And so the villagers set about to work

Station 3: Within the same classroom

Setting: Facilitator may need to prepare the “muddy water” before-hand so that the activities can still be carried out as per lesson plan.

As the last of the villagers heaved a sigh of relief
A chilly wind left an air of grief
With a rumble, Earth appeared
“So you have saved her spirit it seems”
“But the princess’ heart has yet to be redeemed”
And he huffed
And he puffed
And he blew the trees down
The animals up
The fishes down
The animals down
The fishes up
“Good luck cleaning the river now!”

Task 3: *Filtration activity, clean the waters.*

Station 4: Green Roof

At long last, the river, trees and animals were back
And nature was back on track
The villagers rushed into the castle
Ran up the stairs in a hustle
Into the princess’ chambers they stormed
A circle around her they formed

And there, they watched the princess
Free from all woes and (di)stress
Deep in her slumber
And they wondered

Had they failed?
And they watched
And they stared
And they peered

Then
Slowly but surely

The princess opened her eyes
With the same sparkle of the river in the day
Colour returned to her face
As her heart started beating once more
A yawn replacing her gentle snore
And then
As a rainbow appeared through the rain
Her spirit returned, free from pain

The villagers shouted with joy as the princess stood up
As the world was restored
And the land was happy again



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