

A-Warm Welcome





singapore

Introduction

My First Skool – Choa Chu Kang Blk 212

Ms Amanda Lim - Acting Senior Teacher Ms Nur Shaheila – K2 Teacher



PCF Sparkletots Preschool @ Marsiling Blk 302 (CC)

Ms Nur Fatin – Senior Teacher Ms Siti Nazrina – N2 Teacher



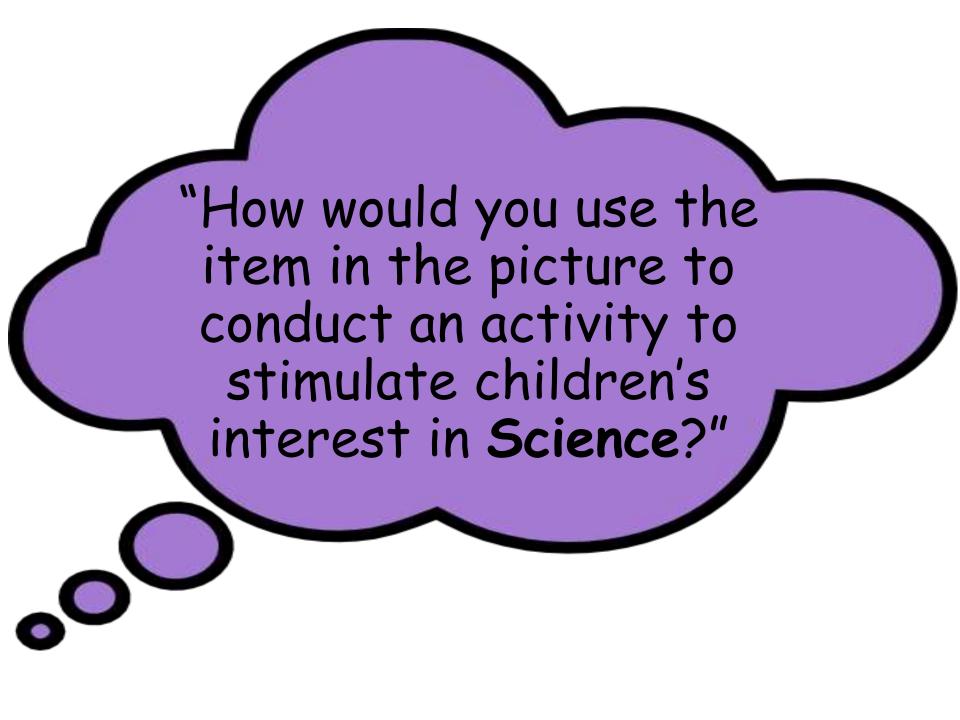
Kinderland Preschool @ Woodlands Mart

Ms Rathi Devi – Head Teacher

Ms Grace Lowella – English Language Teach

Warm-Up Activity







Kitchen Science

"How can we stimulate scientific inquiry skills in preschoolers through kitchen science activities?"



What is Kitchen Science?

Kitchen Science involves the learning of scientific concepts of everyday materials that can be found in the kitchen, through safe and purposeful exploration and experimentation.

Objectives:

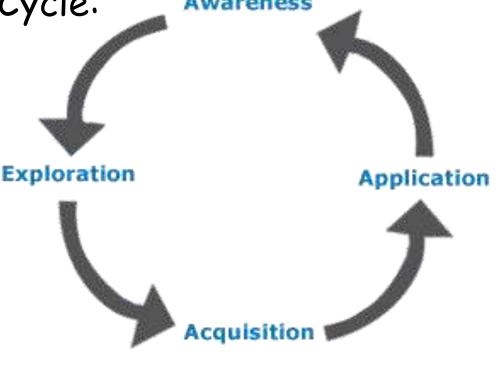
- To capture and develop pre-schoolers' imagination, curiosity and creativity through scientific inquiry
- To enable pre-schoolers to understand that science is all around us, through safe and purposeful exploration and experimentation of materials found in the kitchen
- To equip pre-school educators with knowledge and skills to be able to design child-initiated scientific inquiry lessons related to kitchen science through fun and unintimidating ways
- To set up authentic science discovery corners/ environments related to kitchen science that would spark the curiosity of the pre-schoolers

Implementation Process

 Selection of topic based on centre's curriculum and the children's interest

 Planning of lessons and activities through the Children's Learning Cycle: Awareness





Awareness

- Learning journey to Science Centre Singapore
- Setting up of Science Discovery Centre







Exploration

- Carrying out scientific experiments according to the lesson plans
- Self-discovery and independent learning at the Discovery Centres

Separating solids from liquids





Self-discovery

Rainbow Yarns



Acquisition

- Engaging in discussions
- Peer Learning
- Reflection
- Equipping children with observation skills







Application

Engaging families and Community



Parents participated in volcano workshop - Kinderland Woodlands Mart



Intergeneration Event: Reaching out to the elderly
- My First Skool Choa Chu Kang

Baking with parent volunteers
- PCF Sparkletots Marsiling 302

Let's Explore!

Different shades of blue





Creating Colours



Discovery Learning Centres & Classroom Environment

- Children are encouraged to extend their learning through the planned activities in the learning centres
- Task cards are placed at the discovery learning centre to encourage meaningful play, curiosity, and independent learning.

 Identify a suitable area in the classroom that has a window nearby (if possible).

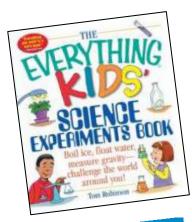


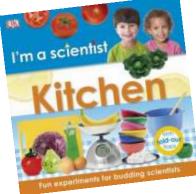






- Gather some science related books.
- Picture books will help children visualize concepts.

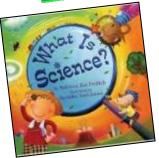












Provide
 materials
 that children
 can touch and
 manipulate.



Children having hands on experience on making the dough



Children having hands on experience on extracting the colours from the plants.

 Provide ageappropriate activities that the children can investigate on their own.





Children conducting simple experiment to test out ideas and prediction.



Children carrying out simple investigation using a wide variety of tools and equipment.

 Record sheets may be provided for simple recording of their findings.



Children carrying out their experiment and comparing their results to their task card.





Children recording their finding through drawing and writing.

Involving Parents

Kinderland Preschool, Woodlands Mart

- SG50 Carnival Start Small Dream Big Project
 The K1 classes involved in Kitchen Science conducted a parental Workshop on "Volcanos" using items found in the kitchen and set up a sales booth, selling homemade ice-cream using simple chemistry concepts, on Young Entrepreneur Day.
- Proceeds from the sale of the home-made ice-cream and tickets to the parental workshops were donated to the ST pocket Money Fund for charity to benefit children from low-income families to support them through school.

Ice-Cream Making Workshop with families (Kinderland Woodlands Mart)



Children and families working together to make ice-cream. Through this activity, family-child bonding is enhanced.



Volcano Workshop with families (Kinderland Woodlands Mart)



Children demonstrating what they have learnt through the Kitchen Science project.

Intergeneration Event (My First Skool CCK)

 Collaboration with Chua Chu Kang Zone 4 RC, My First Skool Choa Chu Kang Blk 212 and My First Skool Choa Chu Kang Blk 208

Making pushpop cakes with families





Mr. Gan Kim Yong, Minister for Health, giving an Opening Address

Intergeneration Event (My First Skool CCK)

 Collaboration with Chua Chu Kang Zone 4 RC, My First Skool Choa Chu Kang Blk 212 and My First Skool Choa Chu Kang Blk 208





Reaching out to the elderly living in the neighbourhood:
Children interacted with the elderly and presented home-made gifts as a way of showing appreciation



Baking For Charity (PCF Marsiling)

Brainstorming

- We started brainstorming on how we can play our part to help the community, making use of the learning from kitchen science project.
- Baking is fun and involves interesting kitchen chemistry concepts!



Visiting a Bakery

 We then headed down to the bakery to have more ideas on what we can bake. We decided to make chocolate and vanilla muffins!



Baking For Charity (PCF Marsiling)

Selling Idea to Parents

 We shared our idea with the parents to get their support and involvements







Baking & Packing

 We prepared and packed for over 200 hundred muffin orders for charity sales.

Professional Development of Preschool Educators

- Enhanced teachers' competency on inquirybased approach
- Increased teachers' confidence and interest level in teaching kitchen chemistry in the preschool classroom
- Improved teachers' content knowledge of ageappropriate science concepts
- Promote professional sharing among colleagues and early childhood educators from other centres.



Children's voices

- "I like baking the coloured cakes because I like to mash the purple sweet potatoes. I like Kitchen Science lessons because it is fun!"
- "My favourite lesson is placing flowers in coloured water. It is exciting to see flowers change colours!"

Review: Kitchen Science

"How can we stimulate scientific inquiry skills in preschoolers through kitchen science activities?"



