

# SCIENCE @ RMPS

## 2024



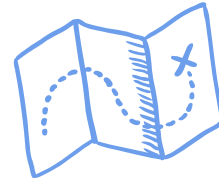
# Vision

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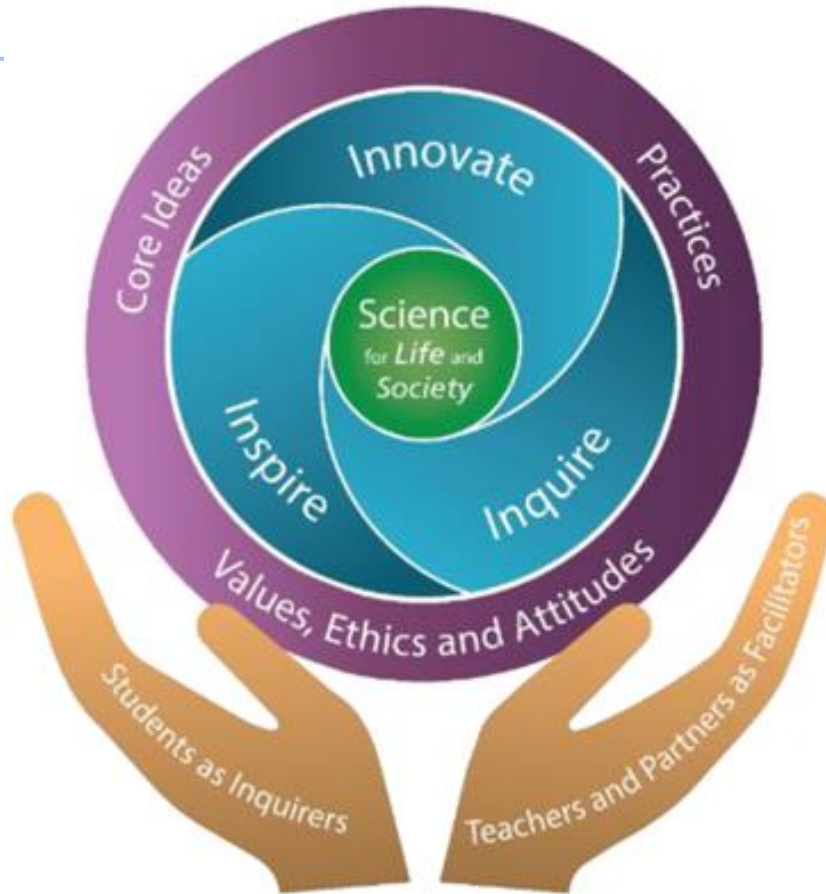
**An inquirer with a passion for Science.**

## Mission

- To develop students with an inquiring mind.
- To equip students with scientific knowledge and skills.
- To make the learning of Science fun, meaningful and relevant.



# Science Curriculum Framework



## Practices

- Demonstrating ways of thinking and doing Science
- Understanding Nature of Scientific knowledge
- Relating Science – Technology – Society – Environment

## Ethics & Attitudes

Curiosity, Creativity, Integrity, Objectivity, Open-mindedness, Resilience, Responsibility, Healthy sceptism

## Skills & Processes

Observing, Comparing, Classifying, Using Apparatus & Equipment, Communicating, Inferring, Formulating hypothesis, Predicting, Analysing, Generating possibilities, Evaluating

# Inquiry-based Learning

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Inquiry-based learning starts by posing questions, problems or scenarios rather than simply presenting established facts or portraying a smooth path to knowledge. The process is facilitated by the teacher.



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**Application** and articulation of  
**concepts into authentic situations**



- While there are certain scientific terms and concepts taught, pupils can demonstrate their understanding by using their own words.
- The focus of learning science is **not** on giving “standard answers” or keywords, but on **developing students’ ability to inquire, understand and explain scientific phenomena.**



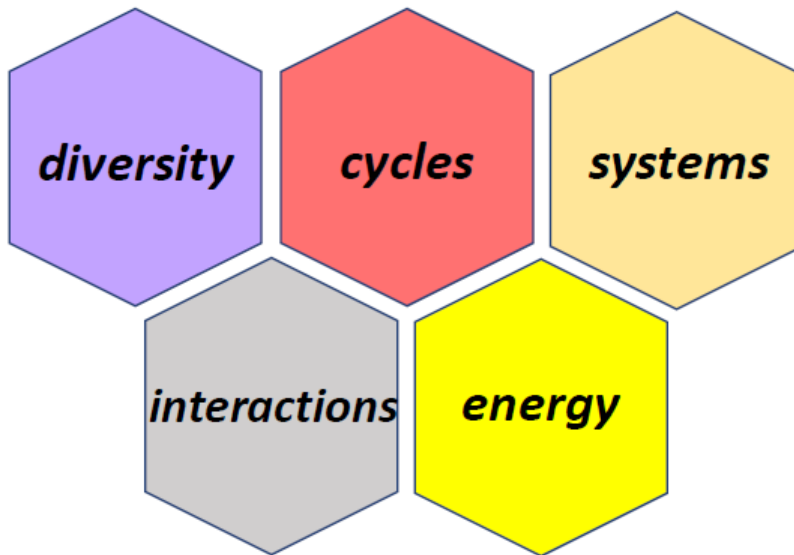
- The learning of science **does require a certain level of clarity though**, in the way concepts are explained, given the **context of the question**.
- Otherwise, **we may end up endorsing misconceptions** in students or rewarding them for ambiguous responses.

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- **Read the questions carefully.**
- Identify (highlight) key phrases and words in the question stem before attempting to answer.
- **Identify the concept** tested.
- **Model** answering techniques.
- Reinforce use of answering techniques taught in class.

## Themes in Primary Science

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# Primary Science Syllabus Overview (P3)

Themes	Lower Block (P3)
Diversity	<ul style="list-style-type: none"><li>• Diversity of living and non-living things</li><li>• Diversity of materials</li></ul>
Cycles	<ul style="list-style-type: none"><li>• Cycles of plants and animals (Life cycles)</li></ul>
Interactions	<ul style="list-style-type: none"><li>• Magnets</li></ul>

# Assignments

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- P3 Workbook
- Worksheets (filed in the Science file)
- SLS assignments

*\*Please keep the P3-P6 work for revision!*



# Assessment

<b>Weighted Assessments in Term 2, 3 (30%)</b>	<b>Semestral Assessment Term 4 (70%)</b>
<p data-bbox="89 319 532 494">In the form of Performance Tasks / Topical Review</p> <p data-bbox="89 576 378 691">Term 2 (15%) Term 3 (15%)</p>	<p data-bbox="678 319 1071 429">1 hour 30 minutes 80 marks</p> <p data-bbox="678 516 1071 625">Booklet A: 24 questions</p> <p data-bbox="678 647 1128 756">Booklet B: 10-12 questions</p> <p data-bbox="678 838 1178 947">All topics covered in P3 will be tested.</p>

## Key Programmes

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Integrated Trail

STEAM Week

Take home kits  
e.g. Seed  
planting

Green  
Ambassadors



[illegible]

- ✓ Speaking
- ✓ Doing
- ✓ Visiting
- ✓ Reading



[illegible]

- It can fly.



- **Concept:** Characteristics of bird
- It has feathers, a beak and a pair of wings.

- Green beans
- Chilli seeds
- Peanuts
- Mould on food (bread)
- Mushroom kits

- Mealworms
- Fish
- Caterpillars

**\*\*Bear in mind – responsibilities involved in pet ownership**

# Doing – E.g. growing green beans

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## Science Concepts:

- Characteristics of living things:
  - Living things need food, air and water.
- Conditions needed for germination
  - Air, warmth, Water

**Observing, Comparing, Classifying, Using apparatus and equipment, Communicating, Predicting, Formulating Hypothesis**



# Doing – Scientific investigations

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## Science experiments:

Hypothesis: Seeds do not need sunlight to germinate.

- Variables to keep the same
- Fair test

**Observing, Comparing, Classifying, Using apparatus and equipment, Communicating, Predicting, Formulating Hypothesis**



# Visiting

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- Singapore Zoo / Night Safari / River Safari
- Bird Paradise
- S.E.A. Aquarium, Sentosa
- Marina Barrage
- Kranji Farms
- Gardens by the Bay / Botanics
- Sungei Buloh Wetland Reserve / Nature parks
- Singapore Science Centre
- **Everywhere and Anywhere!**



# Reading

- Science Books
- Newspapers
- Magazines (National Geographic)
- THINK Science
- Science Adventures
- Young Scientists

SPH Websites ▾

## THE STRAITS TIMES

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SINGAPORE

POLITICS

ASIA

WORLD

VIDEOS

MULTIMEDIA

LIFESTYLE

FOOD

FORUM

### ENVIRONMENTAL ISSUES

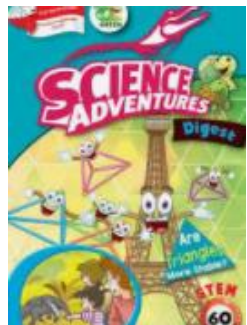


100% Pure? New Zealand's deteriorating water raises a stink

🕒 6 hours ago



How to save the planet: Eat less meat, more greens, nuts



## **Our Contacts**

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**Thank you.**