



2026 PARENTS' BRIEFING

Primary 4

CURRICULUM AND ASSESSMENT

SCIENCE



Content

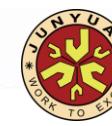
A. Themes and Topics

B. Assessment

C. Strategies to Support our Pupils

A. Revised Science Curriculum

Science education in Singapore provides students with a strong foundation in Science for life, learning, citizenry, and work.



Science for Life and Society in the centre circle captures the essence of the goals of Science education.

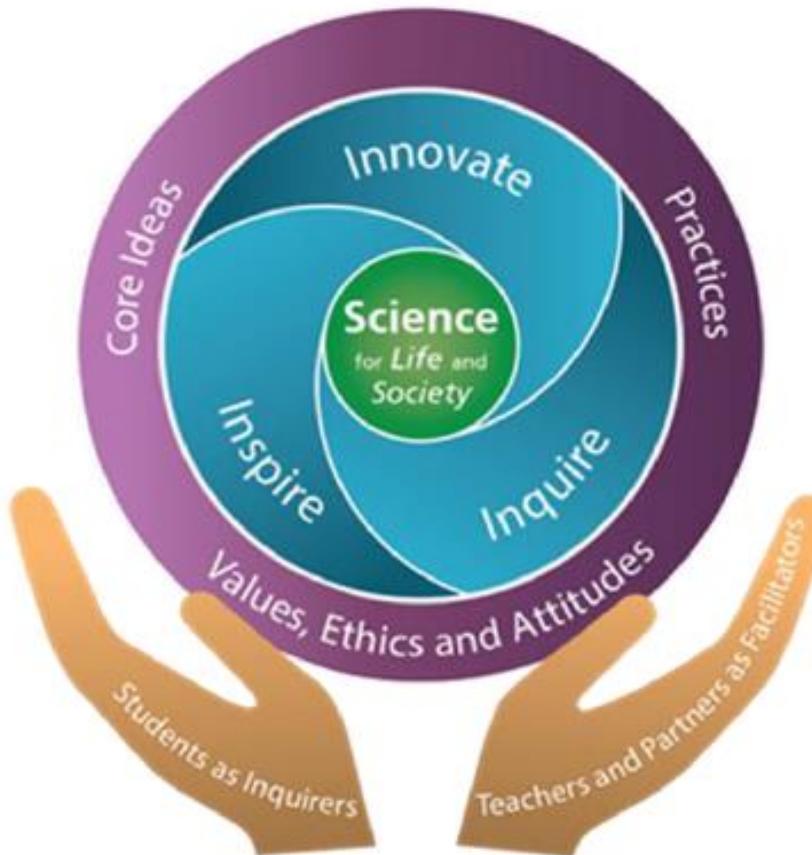


Figure 1: The Science Curriculum Framework

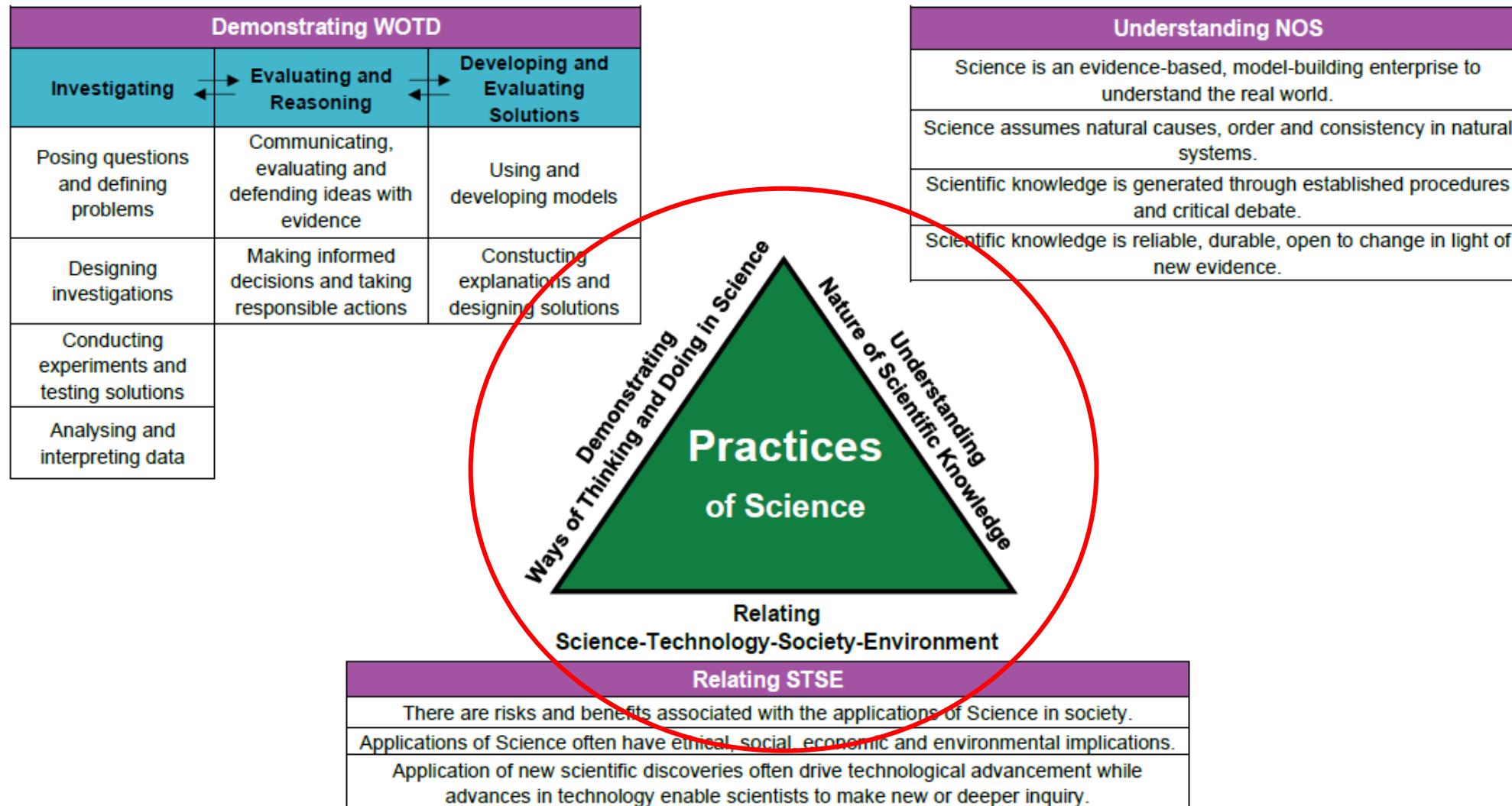


Figure 2: The Practices of Science



Focus of Theme

Thematic Approach (scientific ideas)

Systems

- A system is made of different parts. Each part has its own unique function.
- Different parts of a system influence and work together to perform function(s).

Cycles

- There are repeated patterns of change around us
- Observing cycles helps us to make predictions and understand things around us

Energy

- Energy is required to enable things to work or move.

Syllabus Organisation

Levels	P3	P4	P5	P6
Themes		Diversity . Cycles . Systems . Interactions . Energy		
Topics	<ul style="list-style-type: none"> • Diversity of living and non-living things • Classification of Living Things • Diversity of materials • Life Cycle of Plants and Animals • Interactions – Properties of Magnets, Making and Using Magnets 	<ul style="list-style-type: none"> • Plant System (Plant parts and functions) • Human System (Digestive system) • Cycles - Matter • Energy – Light and Shadows • Energy – Heat and Effects of Heat 	<ul style="list-style-type: none"> • Cycles – Reproduction in Animals and Plants • Cycles in Water • Plant Transport System • The Human Respiratory and Circulatory systems • Electrical Systems • Simple Series and Parallel Electric Circuits 	<ul style="list-style-type: none"> • Energy forms and uses (Photosynthesis) • <u>Energy conversion</u> • Interaction of Forces (Frictional force, gravitational force, <u>elastic spring force</u>) • Interactions within the environment



2023 Revised Science (Primary) Syllabus

For more details, visit the link : <https://www.moe.gov.sg/-/media/files/primary/syllabus/2023-primary-science.ashx>

SCIENCE TEACHING & LEARNING SYLLABUS Primary Three to Six Standard / Foundation

Implementation starting with
2023 Primary Three Cohort

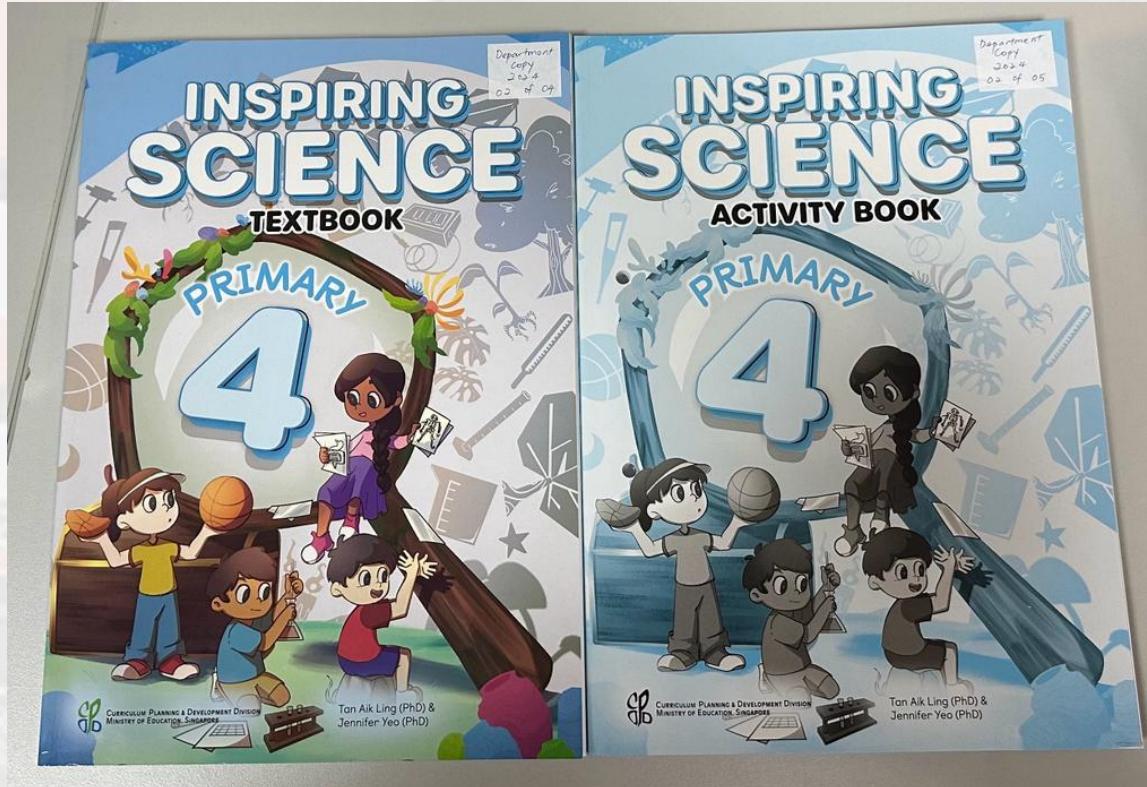
Updated October 2022



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Learning Materials



Textbook and Activity Book

Please Note:

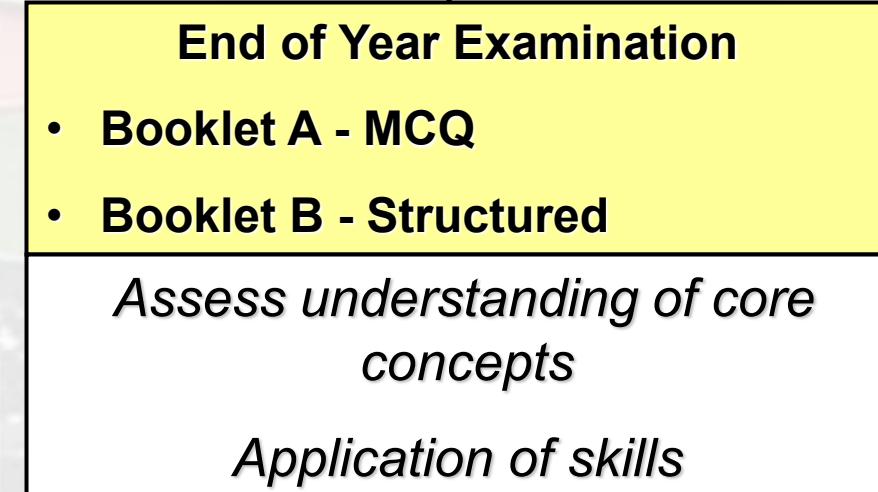
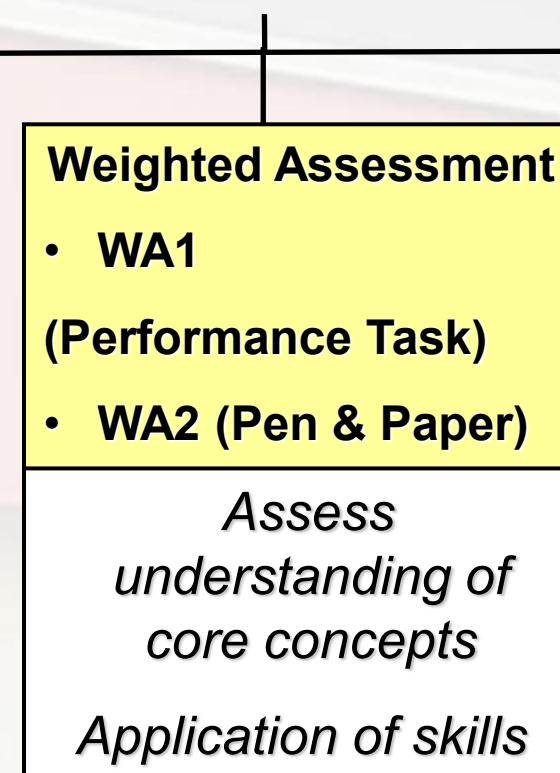
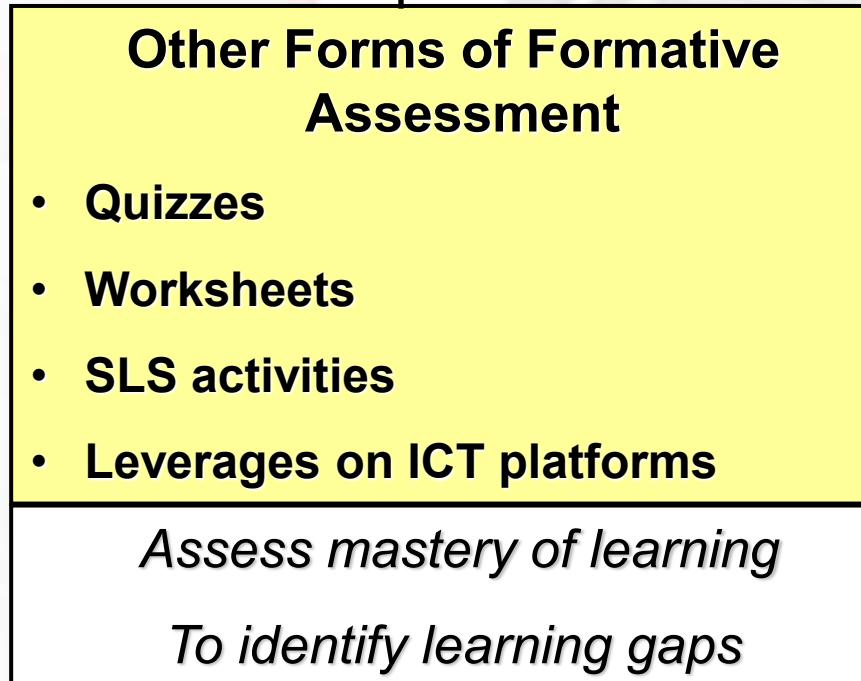
To keep all the Science materials until child sits for PSLE

Textbook & Activity Book
Science Journal
Science-Know-It-All (SKIA)
Topical Worksheets
WOTD Worksheets



Science Assessment

Modes of Assessment (Primary 4)





Assessment

Purpose?

- Understanding of **core concepts**
- Readiness of child
- Close learning gap

How?

Weighted Assessments

WA1: Performance Task

Application of Skills

Show understanding of Science concepts learnt

WA2: Pen and Paper

Booklet A: MCQ

Booklet B: Structured Questions

End of Year Assessment

Booklet A: MCQ

Booklet B: Structured Question

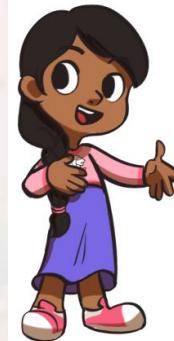
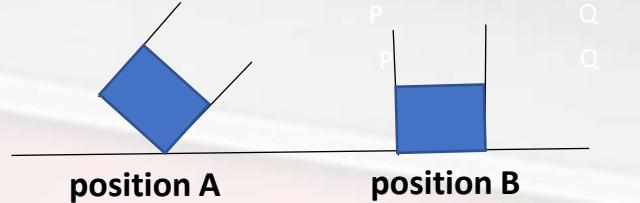


Examples and Applications in Different Contexts in Science

Example 2: Matter

Concept:
Properties of Matter

A substance is put in a container.
The container is placed in positions A and B below.
The object is definitely a solid. Do you agree?



Yes, it is a solid because it takes up the same amount of space in positions A and B.



Yes, the substance has a fixed shape and volume in both positions A and B.



Yes, the substance did not change its shape in position A.



If the substance only takes up the same amount of space in the container, it may be a liquid.
There is insufficient evidence to conclude that the substance is a solid.
The substance is definitely a solid if it has a definite shape and volume.

Example 2: Matter

Applications in daily life

SCHOOL
s of Character

Properties of solids, liquids and gases are applied in our everyday life.



We can fill balloons of different shapes and sizes as gases have no definite shape and volume!



Water takes the shape of the containers as it has no definite shape.



We can also have ice sculptures in cold environment as ice has a definite shape and volume.



Example 3: Heat

Concept:
Heat Conduction

SCHOOL
s of Character



Air slows down
heat flow.

This jacket keeps us warm because ...



air
in
jacket



Air prevents coldness
from reaching us.



Air is a poor conductor of heat.



The description of coldness being transferred is conceptually incorrect.
Heat is transferred from a warmer region to a colder region.
The air in jacket slows down heat flow away from the body
rather than prevents coldness from reaching us.

Example 3: Heat

Applications in daily life

SCHOOL
s of Character

Some objects are better conductors of heat so they allow heat to flow through faster than others. What are some examples of heat flow in our everyday life?



Heat flows through the metal pot quickly to cook our food.

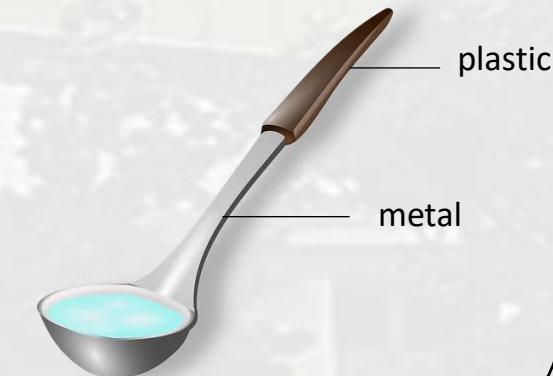


Heat flows through the cardboard slowly so that I can hold my hot drink.



Some objects are made of both good and poor conductors of heat, such as the soup ladle.

I can hold the plastic handle safely when getting my hot soup.





Supporting our Pupils

Repository
for revision

SINGAPORE
STUDENT
LEARNING
SPACE



Support if child is keen on
investigative work



Revise!

Actively engaging the mind



Sky Map

This one started out as a project on Google, and then became open source. If you don't know where to start, point it at the sky and have it direct you toward something cool.

ANDROID

Daily happenings around us

- Weather patterns
- Fungi growing along roadside
- Technology/research



Reading

Interest building – Some
apps online/mobile apps



Tips on Parental Involvement

- Encourage curiosity

Encourage pupils to ask questions about things that happen around them. *Give praise when a good question is asked.* It is **perfectly alright not to know the topic your child is interested in.** The process of discovering new information and facts together encourages bonding.

- Be positive and supportive

If you can role model and display a genuine interest in science and how things work around us, it will have a positive impact on your child's attitude towards science.

- Point out the everyday Science around us

Use everyday objects or phenomenon to highlight the connection and importance of science to the world we live in.

- Provide ample opportunities or stimulating environments for informal science learning

- family outings to Mandai Wildlife Reserve, Botanic Gardens, Science Centre
- a short film shown on a television or video clip from YouTube or other websites
- visit the library, the parks



JUNYUAN PRIMARY SCHOOL

Future-Ready Learners . Leaders of Character

Thank You