

2024 PARENTS' BRIEFING Primary 3

CURRICULUM AND ASSESSMENT SCIENCE



Content

A. Themes and Topics

B. Assessment

C. Strategies to Support our Pupils



Focus of Theme Thematic Approach (scientific ideas)

Diversity

- Great variety of Living & Non-Living Things around Us
- Using properties to classify them

Cycles

 Repeated patterns of change in nature

Interactions

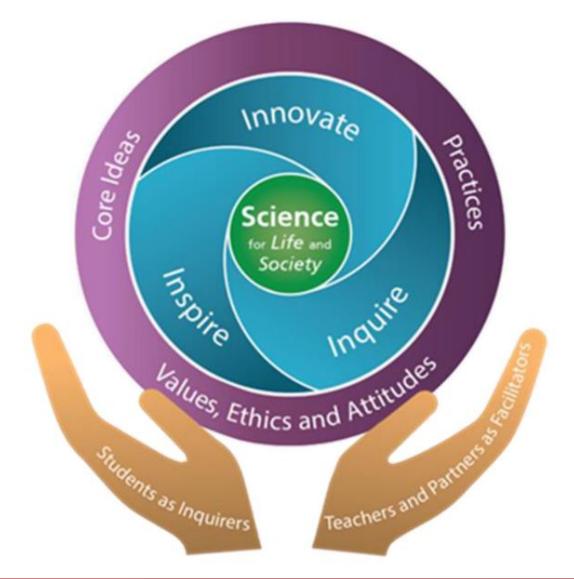
- Actions between and within living and non-living systems in the environment
- See relationships between the factors/variables

Syllabus Organisation

Levels	Р3	P4	P5	P6
Themes	D	iversity . Cycles . Sy	stems . Interactions .	Energy
Topics	 Diversity of living and non-living things (General characteristics and classification) Diversity of materials Cycles in Plants and Animals (Life cycles) Interactions of forces (Magnets) 	 Plant System (Plant parts and functions) Human System (Digestive system) Cycles in matter and water (Matter) Energy forms and uses (Light) Energy forms and uses (Heat) 	 Cycles in matter & water (Water) Cycles in plants & animals (Reproduction) Human System (Respiratory and circulatory systems) Electrical Systems 	 Energy forms and uses (Photosynthesis) Energy conversion Interaction of Forces (Frictional force, gravitational force, elastic spring force Interactions within the environment



The Science Curriculum Framework





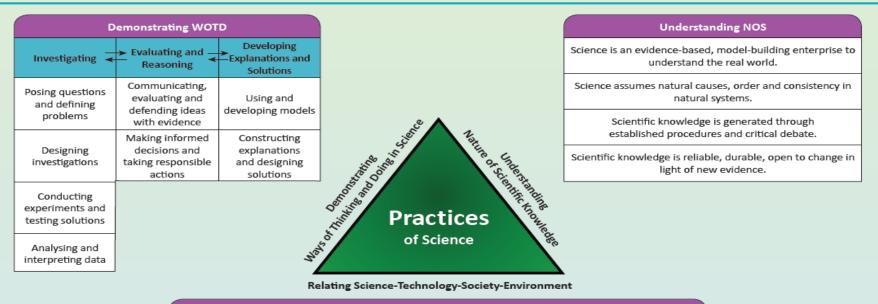
From 2023 Primary Science Syllabus

Practices of Science

The Practices consist of three components:

- a. Demonstrating Ways of Thinking and Doing in Science (WOTD);
- b. Understanding the Nature of Scientific Knowledge (NOS); and
- c. Relating Science, Technology, Society and Environment (STSE).

They represent the set of established procedures and processes associated with scientific inquiry, what scientific knowledge is and how it is generated and established, and how Science is applied in society respectively.



Relating STSE

There are risks and benefits associated with the applications of Science in society.

Applications of Science often have ethical, social, economic and environmental implications.

Application of new scientific discoveries often drive technological advancement while advances in technology enable scientists to make new or deeper inquiry.

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Assessment

Purpose?

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

How?

Weighted Assessments

WA1: Pen and Paper

Booklet A: MCQ

Booklet B: Open-ended / & Structured Question

WA2: Performance Task

Application of Skills

Show understanding of Science Concepts

End of Year Assessment

Booklet A: MCQ

Booklet B: Open-ended / &

Structured Question



Science Assessment

Modes of Assessment (Primary 3)

Other Forms of Formative Assessment

- Quizzes
- Worksheets
- SLS activities
- Leverages on ICT platforms (Kahoots, Mentimeter etc)

Assess mastery of learning

To identify learning gaps

End of Year Examination

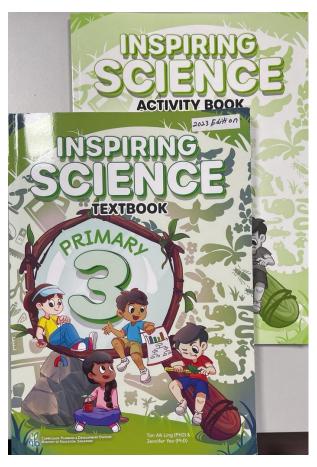
- Booklet A MCQ
- Booklet B Open-ended

Assess understanding of core concepts

Application of skills



Presentation of Learning Materials



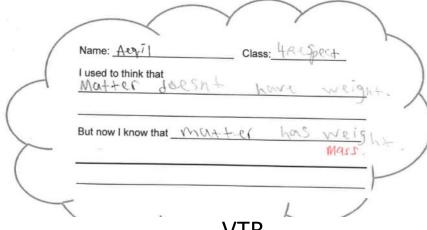
Science Journal
Science-Know-It-All (SKIA)
Process Skill Package
Topical Worksheets

Textbook and Activity Book

Please Note: To keep all the Science materials until child sits for PSLE

Frictional Force Frictional force is a contact force. " It is present when two surfaces are in contact. It can slow down or stop a moving object as it acts in the opposite · A force that apposes motion when two · The texture of a surface affects frictional force. · As moving object moves a shorter distance and more stowly on the rough There is greater frictional force between a moving object and a rough surface than between the object and a smooth surface. The amount of frictional force between the moving object and a surface does not depend on the surface area in contact When we rub our hands together, there is firstional force between our palms: "When we still a nithbur, the initional core between the matchilick and notables causes the matchilick land." "Initional force from the rubbing of sticks together can start a fire." Trictional force can be weeful. · Frictional force helps us to grip objects without dropping them. It prevents us from slipping attailing them we are walking. It helps to slow down or stop a moving object. (It helps to light a match/lighter)

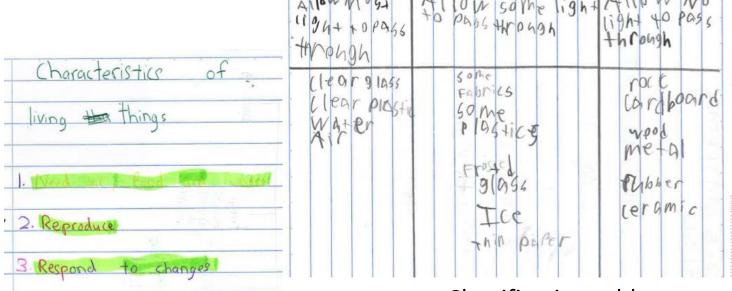
notes taking



Our Class Chart Matter Not matter

pencil fire extinguisher blood air table boy water air freshener door shark

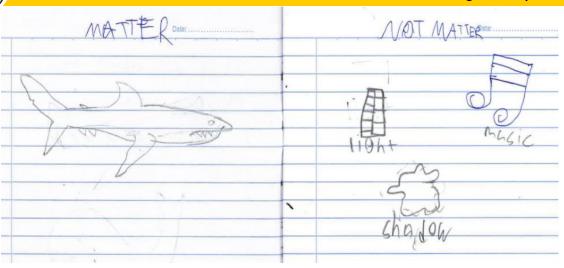
music thunder shadow Consolidated postheat light lesson discussion print-out



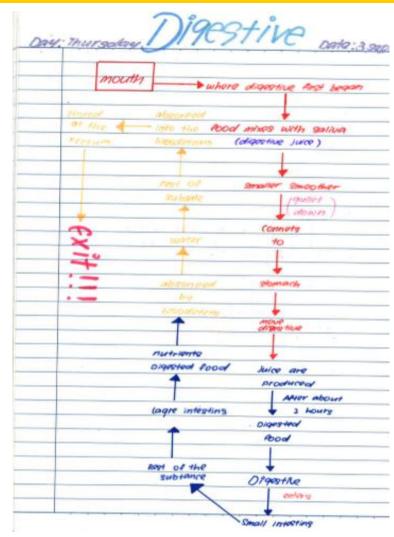
Classification table

Quizzes

+ Grow Grow







Students using different styles that they consolidate/validate their own learning



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 encourage 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 attitudes 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 Zoo, Botanic Gardens, Science Centre
- a short film shown on a television or video clip from an internet website
- visit the library



Thankyou