

# 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**

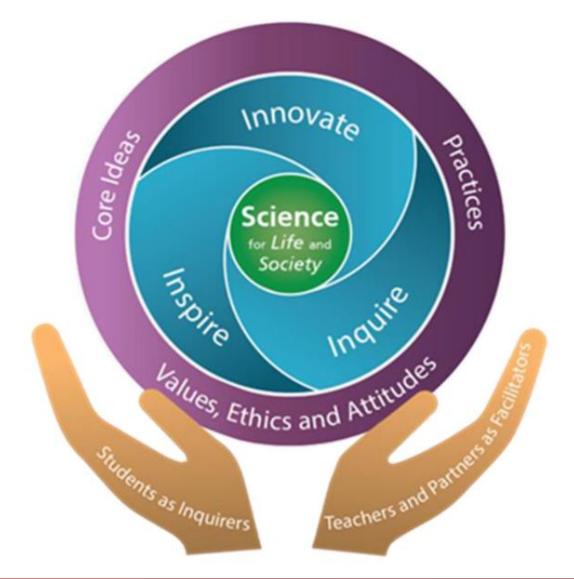
- Actions between and within living and non-living systems in the environment
- See relationships between the factors/variables

#### **Syllabus Organisation**

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



#### The Science Curriculum Framework





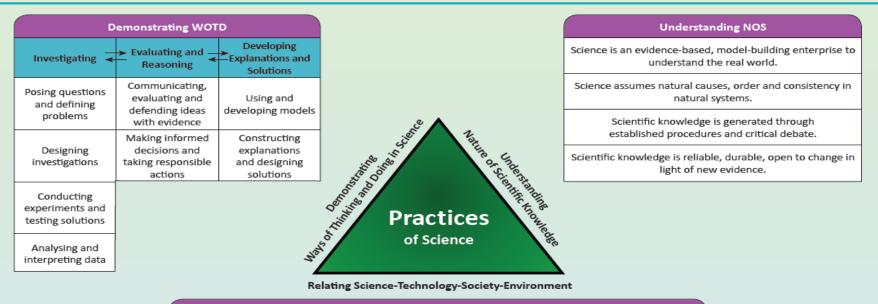
#### From 2023 Primary Science Syllabus

#### **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**

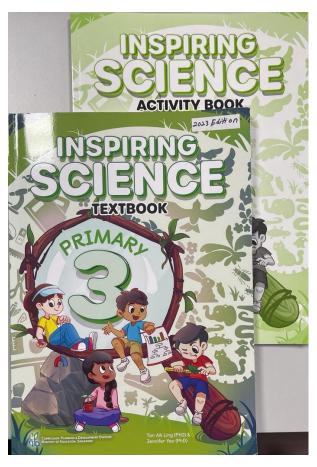
- Booklet A MCQ
- Booklet B Open-ended

Assess understanding of core concepts

Application of skills



# **Presentation of Learning Materials**



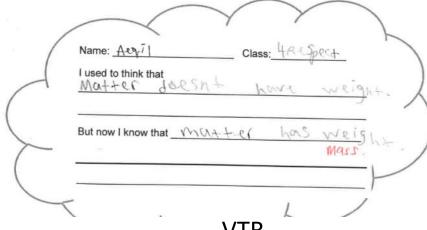
Science Journal
Science-Know-It-All (SKIA)
Process Skill Package
Topical Worksheets

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)

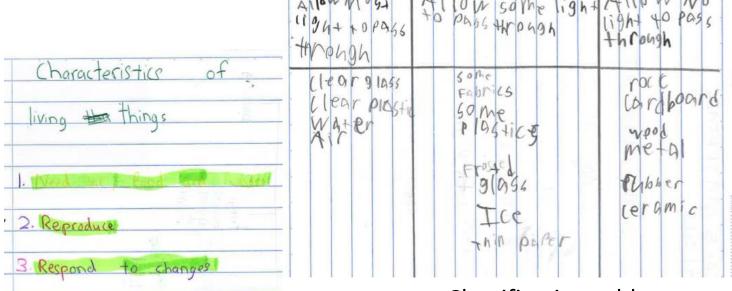
#### notes taking



#### **Our Class Chart** Matter Not matter

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

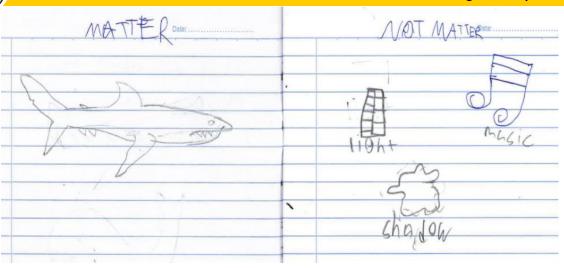
music thunder shadow Consolidated postheat light lesson discussion print-out



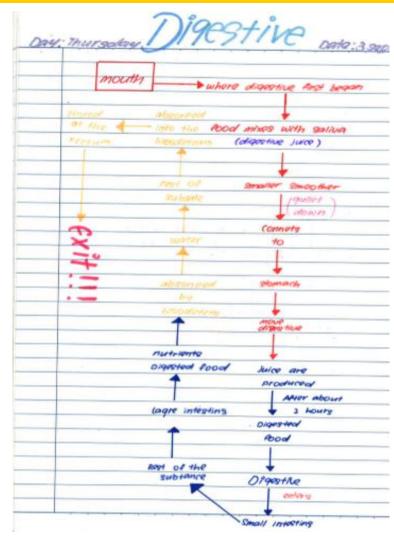
Classification table

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