



# **2023 PARENTS' BRIEFING**

## **Primary 3**

# **CURRICULUM AND ASSESSMENT**

## **SCIENCE**



# Content

A. Themes and Topics  
(New Science Syllabus Update 2023)

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	P3	P4	P5	P6
Themes	Diversity . Cycles . Systems . Interactions . Energy			
Topics	<ul style="list-style-type: none"> <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>Interaction of forces (Magnets)</li> </ul>	<ul style="list-style-type: none"> <li>Cycles in matter and water (Matter)</li> <li>Human system (Digestive system)</li> <li>Plant system (Plant parts and functions)</li> <li>Energy forms and uses (Light)</li> <li>Energy forms and uses (Heat)</li> </ul>	<ul style="list-style-type: none"> <li>Cycles in matter and water (Water)</li> <li>Cycles in plants and animals (Reproduction)</li> <li>Plant system (Respiratory and circulatory systems)</li> <li>Human system (Respiratory and circulatory systems)</li> <li>Electrical system</li> </ul>	<ul style="list-style-type: none"> <li>Energy forms and uses (Photosynthesis)</li> <li><u>Energy conversion</u></li> <li>Interaction of forces (Frictional force, gravitational force, <u>elastic spring force</u>)</li> <li>Interactions within the environment</li> </ul>

*Note: Underlined topics are not required in the Foundation Science Syllabus*



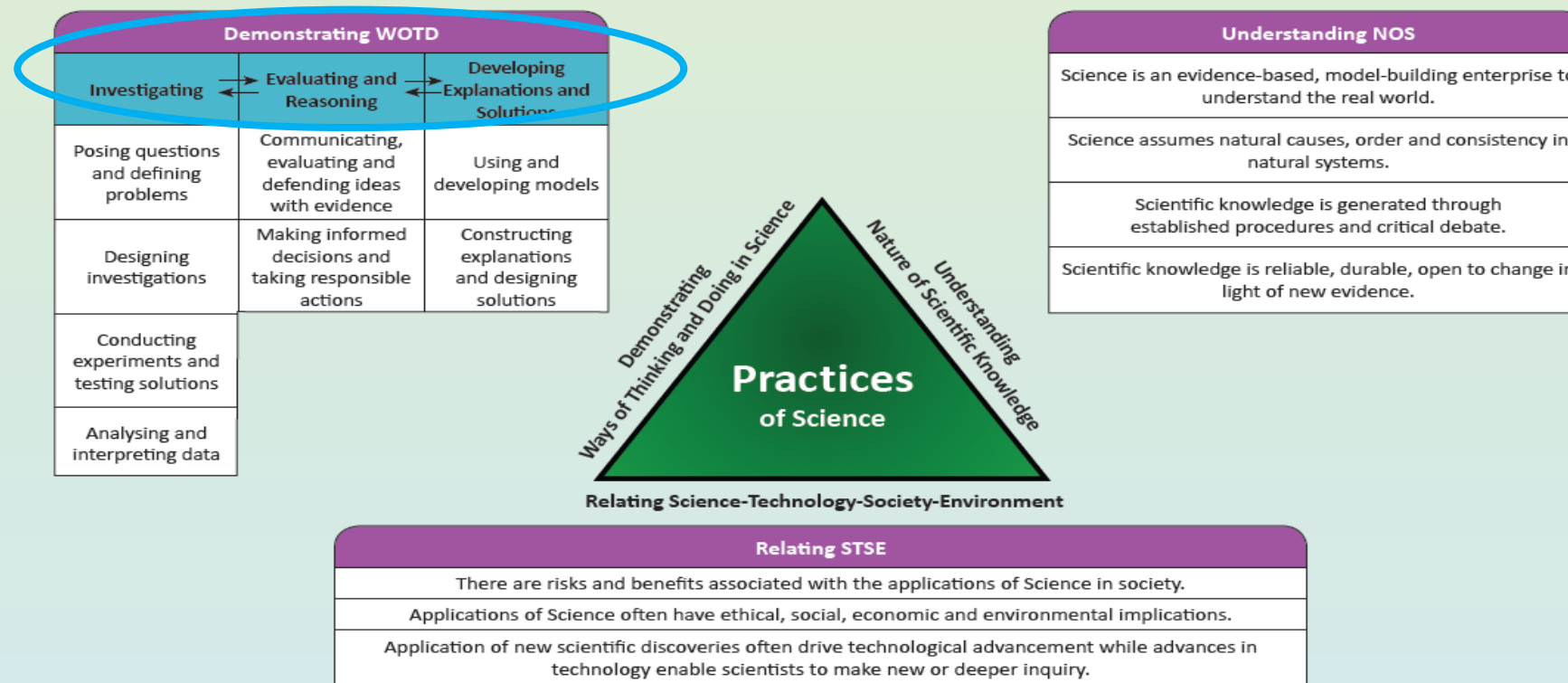
## From 2023 Primary Science Syllabus

### Practices of Science

The Practices consist of three components:

- Demonstrating Ways of Thinking and Doing in Science (WOTD);
- Understanding the Nature of Scientific Knowledge (NOS); and
- 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.





## 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*

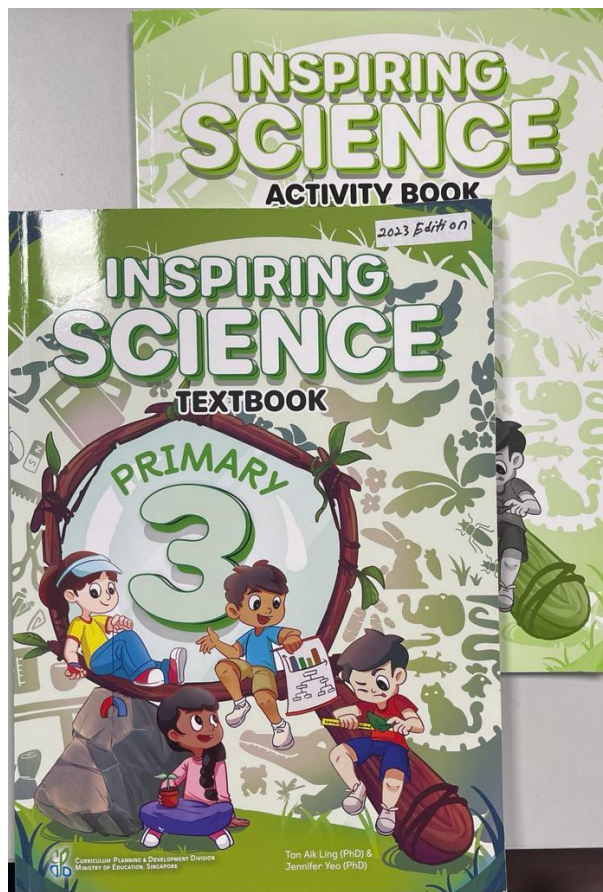
#### WA2: Performance Task

Application of Skills

### End of Year Assessment



# Presentation of Learning Materials



Science Journal  
Science-Know-It-All  
Process Skill Package  
Topical Worksheets

Textbook and Activity Book

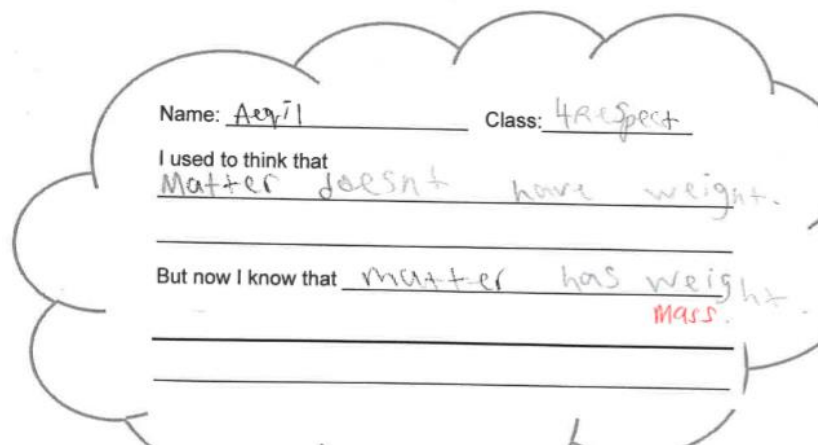
*Please Note: To keep all the Science materials till child sits for PSLE*



## 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 direction of motion.
  - A force that opposes motion when two surfaces are in contact.
  - The texture of a surface affects frictional force.
  - A moving object moves a shorter distance and more slowly on the rough surface.
  - 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 frictional force between our palms.
  - When we strike a matchbox, the frictional force between the matchstick and matchbox causes the matchstick to light.
  - Frictional force from the rubbing of sticks together can start a fire.
- Frictional force can be useful.
- Frictional force helps us to grip objects without dropping them.
  - It prevents us from slipping and falling when we are walking.
  - It helps to slow down or stop a moving object.
  - (It helps to light a match/lighter)

notes taking



VTR

## Characteristics of living things

1. Need for Food and Water
2. Reproduce
3. Respond to changes
4. Grow Grow

Quizzes

## Our Class Chart

### Matter

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

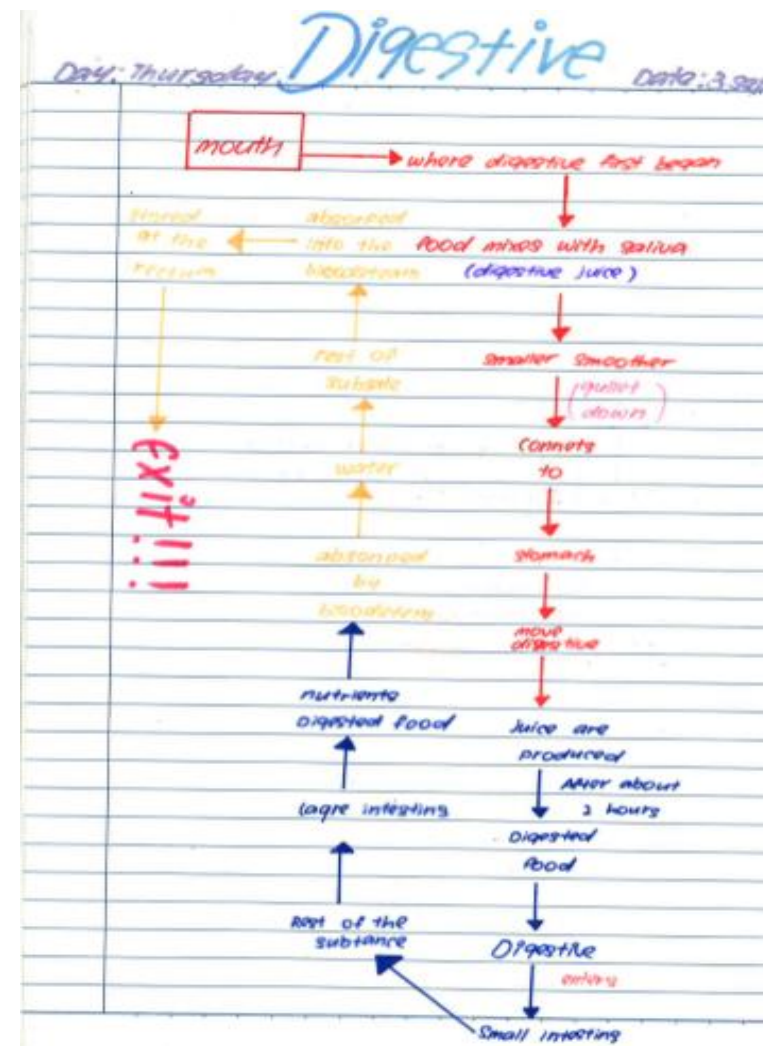
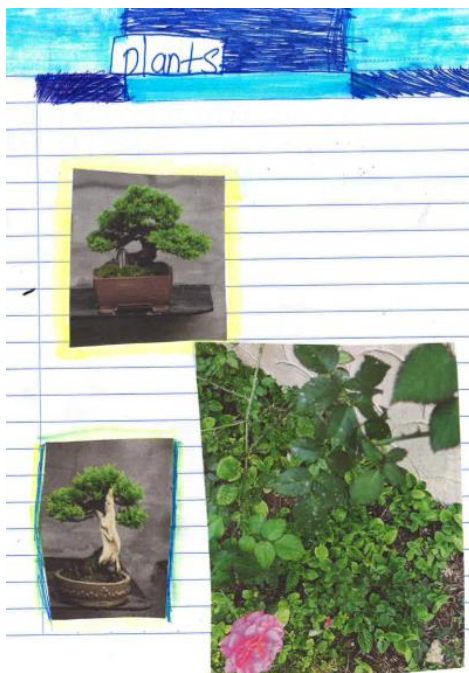
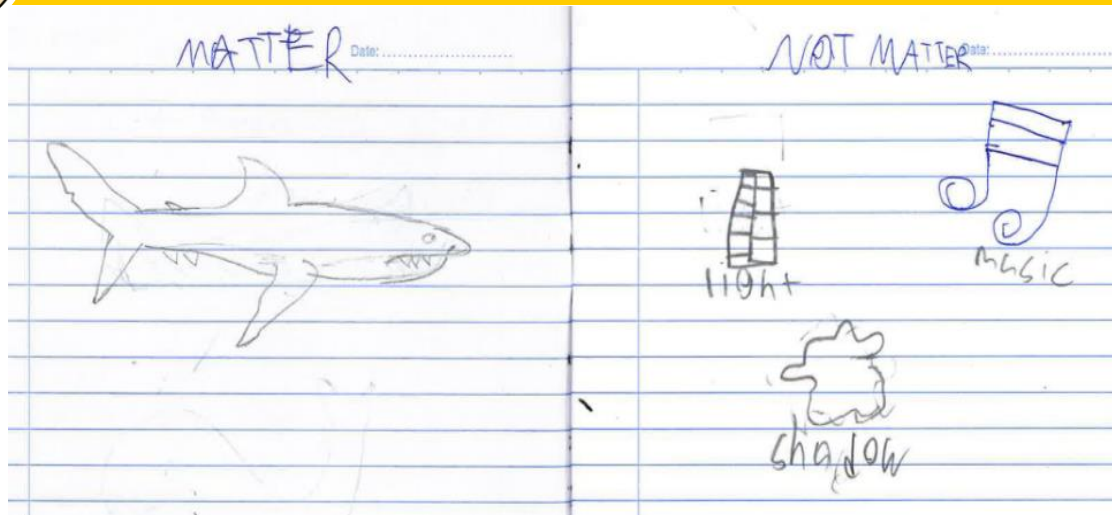
### Not matter

music  
thunder  
shadow  
heat  
light

Consolidated post-  
lesson discussion  
print-out

Allow No light to pass through	Allow some light to pass through	Allow No light to pass through
clear glass clear plastic water air	some fabrics some plastic frosted glass ice thin paper	rock cardboard wood metal rubber ceramic

Classification table



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



# Thank You