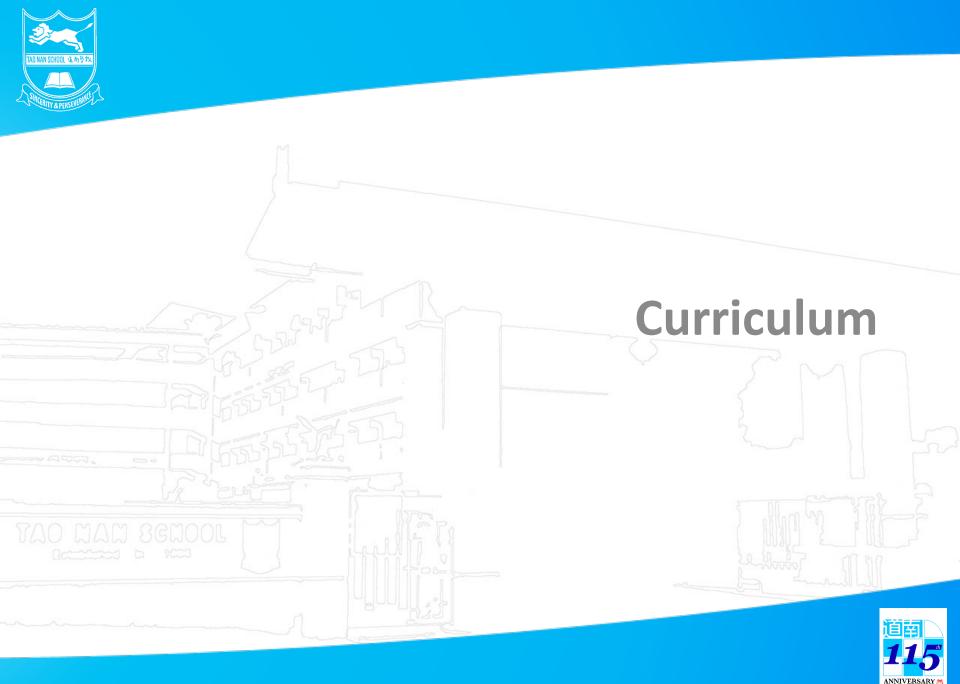


P6 Science Curriculum Information





Themes and Topics Covered in P6

Theme	Topic
Energy	Forms and Uses of EnergySources of EnergyEnergy Conversion
Interaction	 Forces Types of Forces Living Together Characteristics of the Environment/Factors affecting the environment Food Chains and Food Webs Adaptation for Survival Man's Impact on the Environment





Teaching Strategies

- Inquiry-Based Learning approach (IBL) incorporating Differentiated Instructions (DI)
- L.A.S.E.R. program
- Teaching Resources from Internet, PowerPoint slides, Science-based videos and Science Simulations.
- Hands-On Experience
 - √ Laboratory Experiments
 - ✓ Outdoor experiential learning experiences
- Learning Journey
 (Subject to COVID-19 SMM)





Inquiry-Based Learning





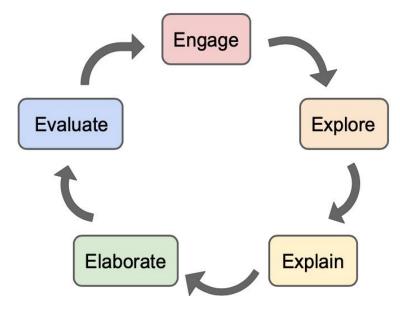


Figure 1: 5Es in Inquiry-Based Learning

Inquiry-Based Learning (IBL) approach is adopted in the learning of Science. The process of inquiry is facilitated by teachers who would help students make connections and build their understanding of Science concepts using the 5Es – Engage, Explore, Explain, Elaborate and Evaluate.

L.A.S.E.R. Program

- L.A.S.E.R stands for <u>Learners' Assembly for Science</u>
 <u>Examination Requirements</u>
- Progressively equips students with strategies and techniques to handle examination questions from P3 to P6
- Exposes students to different question types and problem stimuli.
- Empowers students with necessary skills and knowledge to understand and answer examination questions proficiently.
- L.A.S.E.R. worksheets would complement the PowerPoint teaching slides used in the classroom.



Materials used:

- My Pals Are Here Textbooks & Activity books
- Topical Science Notes
- Topical Worksheets
- L.A.S.E.R. Worksheets
- PSLE Booklet (2019 2021)
- Practice Papers (Past SA1/Prelims from TNS and other schools)





Assessment Objectives of Science PSLE

The PSLE Science Paper assesses students' attainment in Science with respect to the aims of Primary Science Education as stated in the-2014-Science-Syllabus

The assessment objectives are as follows:

Knowledge with Understanding

Students should be able to demonstrate knowledge and understanding of scientific facts, concepts and principles.

II. Application of Knowledge and Process Skills

Students should be able to

- a. apply scientific facts, concepts and principles to new situations.
- interpret information (including pictorial, tabular and graphical) and investigate using one or a combination of the following process skills:
 - Inferring
 - Predicting
 - Analysing
 - Evaluating
 - Generating possibilities
 - Formulating hypothesis
 - Communicating





MYE/Prelim/PSLE Examination Format (Standard Science)

Booklet	Item Type	Number of Number of marks per question		Marks
Α	Multiple-choice	28	2	56
В	Open-ended	12 - 13	2 - 5	44

Duration of paper: 1 hour 45 minutes.

MYE/Prelim/PSLE Examination Format (Foundation Science)

Booklet	Item Tyne		Number of marks per question	Marks
Α	Multiple-choice	18	2	36
В	Structured	6 - 7	2 - 3	14
	Open-ended	5 - 6	2 - 4	20

Duration of paper: 1 hour 15 minutes.

Provision of Word List

The Foundation Science paper focuses on assessing students' grasp of basic scientific knowledge. A word list is provided during the examination to allow students to display their knowledge and understanding without being unduly disadvantaged by their weakness in the English language. It should be appreciated that the list is not exhaustive.

Table of specifications for PSLE Standard Science/Foundation Science

Theme	Life Science	Physical Science	Weighting
Diversity	Diversity of Living things P3	 Diversity of non-living things P3 Diversity of materials P3 	5-10%
Cycles	Life cycles of plants & animals P4	 Cycles in matter P4 Cycles in water P5 	20-25%
Systems	 Plant system P5 Human system P5 Cell system P5 	Electrical system P5	15-25%
Interactions	Interaction within the environment P6	Interaction of forces P3 (Magnetic force) and P6 (Gravitational force, Frictional force, Elastic Spring Force)	25-30%
	• Energy forms & uses	Energy forms & uses	

P4 & P6

Energy conversion

45-55%

15-20%

100%

P6

Energy forms & uses

(Photosynthesis) P5

45-55%

Energy

Weighting

2022 Assessment Overview

	P6	Science
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Topics Tested

Duration of paper

Paper/Booklet

Type of Questions

No. of Questions

Marks per Question

Total for each section

Overall Weighting

Total

Total marks for the paper

	VCI	VI	CV	v
	9	em	est	ום
		CIII		

Booklet A

Multiple choice

questions

28

2

56

1 (30%)

Booklet B

Open-ended

questions

12-13

2,3,4,5

44

100%

Mid-Year Examination

(Term 2)

P3, P4, P5 [All themes]

P6 [Energy, Interaction] (excluding Man's impact on the environment]

1 hour 45 minute

100

30%

Semester 2 (70%)

Preliminary Examination

(Term 3)

P3 to P6 [All themes]

1 hour 45 minute

100

70%

Booklet B

Open-ended

questions

12-13

2,3,4,5

44

Booklet A

Multiple choice

questions

28

2

56



Home-School Partnership

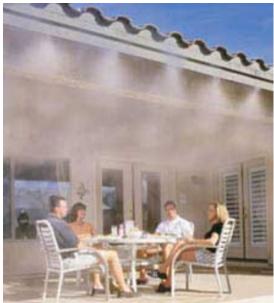


Strategies to help your child

- a) Help your child to be familiar with the concepts/facts of the topics taught.
- b) Point out real life scenarios for your child to apply his/her Science concept.





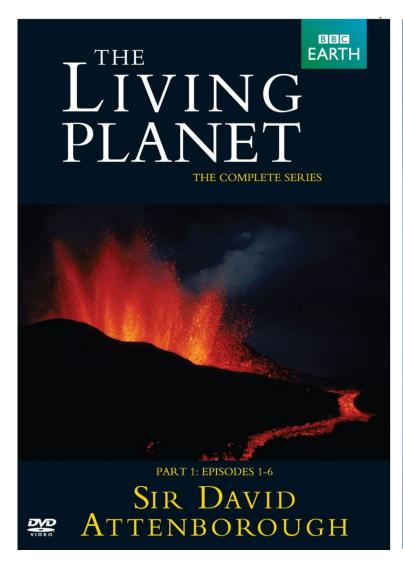


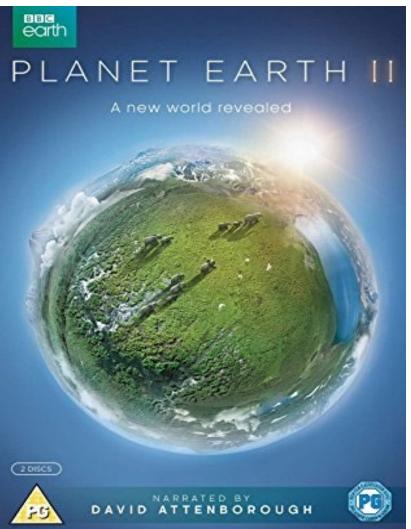
Strategies to help your child

- c) Ensure that all homework is carefully completed and submitted punctually.
- d) Encourage your child to read a wide variety of Science-related reading materials.



e) Encourage your child to watch <u>Science documentaries</u>. (Eg: Animal Planets, National Geographic channels, and other BBC videos)





Strategies to help your child

- f) Revise P3 to P5 Science concepts.
- g) Use concept maps or mind maps to organise notes.
- h) Go through the work (Activity books/topical worksheets/Practice papers) marked by the teachers to learn from the mistakes made.



