

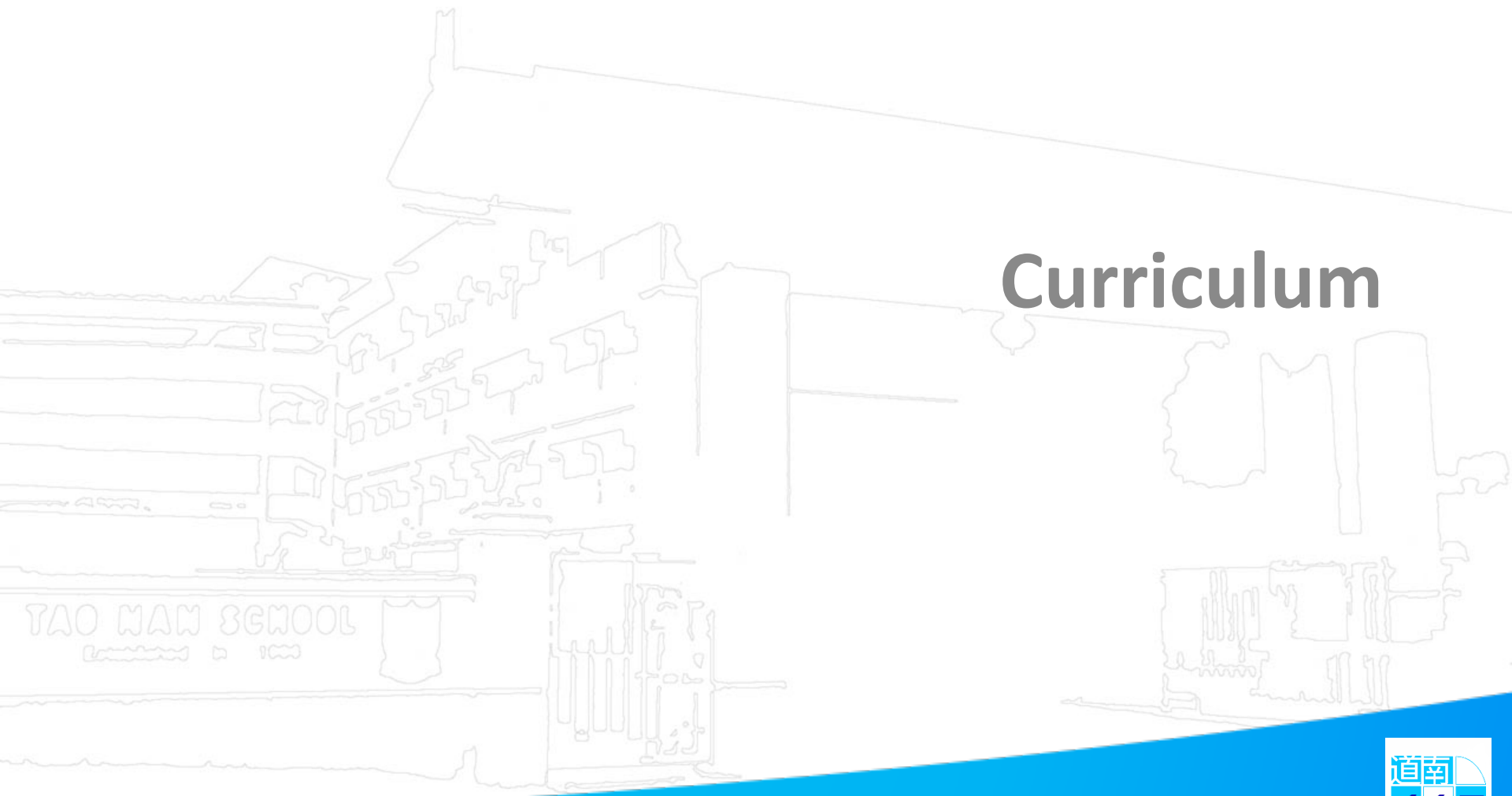


2022 P4 Science Curriculum Information





Curriculum



Themes and Topics Covered in P4

Theme	Topic
Cycles	<ul style="list-style-type: none">• Life cycles in some animals• Life cycles of plants• Matter
Energy	<ul style="list-style-type: none">• Light and Shadow• Heat and Temperature





Pedagogy



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

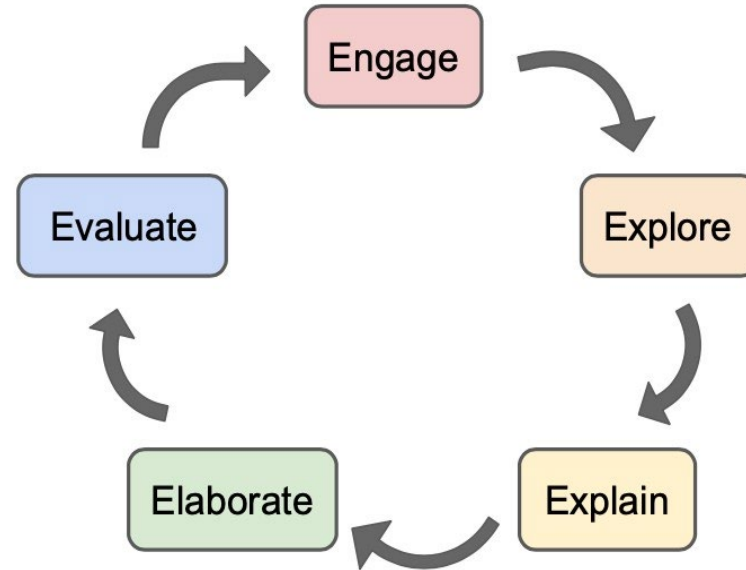


Figure 1: 5Es in Inquiry-Based Learning



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 **Learners' Assembly for Science Examination Requirements**
- **Progressively equips** students with strategies and techniques to handle examination questions **from P3 to P6**
- **Expose** students to different question types and problem stimuli.
- **Empower** 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
- EOY practice papers of previous year



Assessment



2022 Assessment Overview

P4 Science	Semester 1 (30%)		Semester 2 (70%)		
	Mid-Year Examination (Term 2)		Practical (Term 3)	End-of-Year Examination (Term 4)	
Topics Tested	20-30%: All P3 topics 70-80%: P4 topics (Life cycles of plants & animals, Matters, Light)		P3 & P4 Topics Science Process Skills (Observation, use of apparatus for measurement, etc)	20-25%: All P3 topics in Diversity, Interaction, System 75-80%: All P4 topics in Cycles, Energy	
Duration of paper	1 h 30 min		~30 min	1 h 30 min	
Paper/Booklet	Booklet A	Booklet B	Practical Test	Booklet A	Booklet B
Type of Questions	Multiple choice questions	Open-ended questions	Practical test	Multiple choice questions	Open-ended questions
No. of Questions	22	12	4	22	12
Marks per Question	2	2, 3, 4	4 - 6	2	2, 3, 4
Total for each section	44	36	20	44	36
Total Marks	80		20 (Non-weighted)	80	
Overall Weighting	30%		0%	70%	
Total	100%				

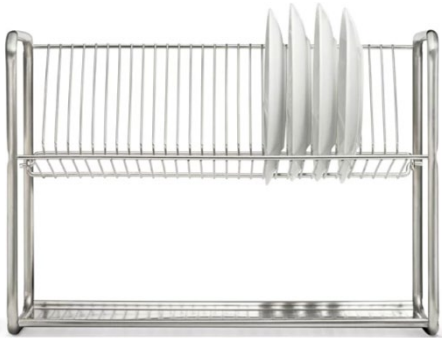




Home-School Partnership

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.

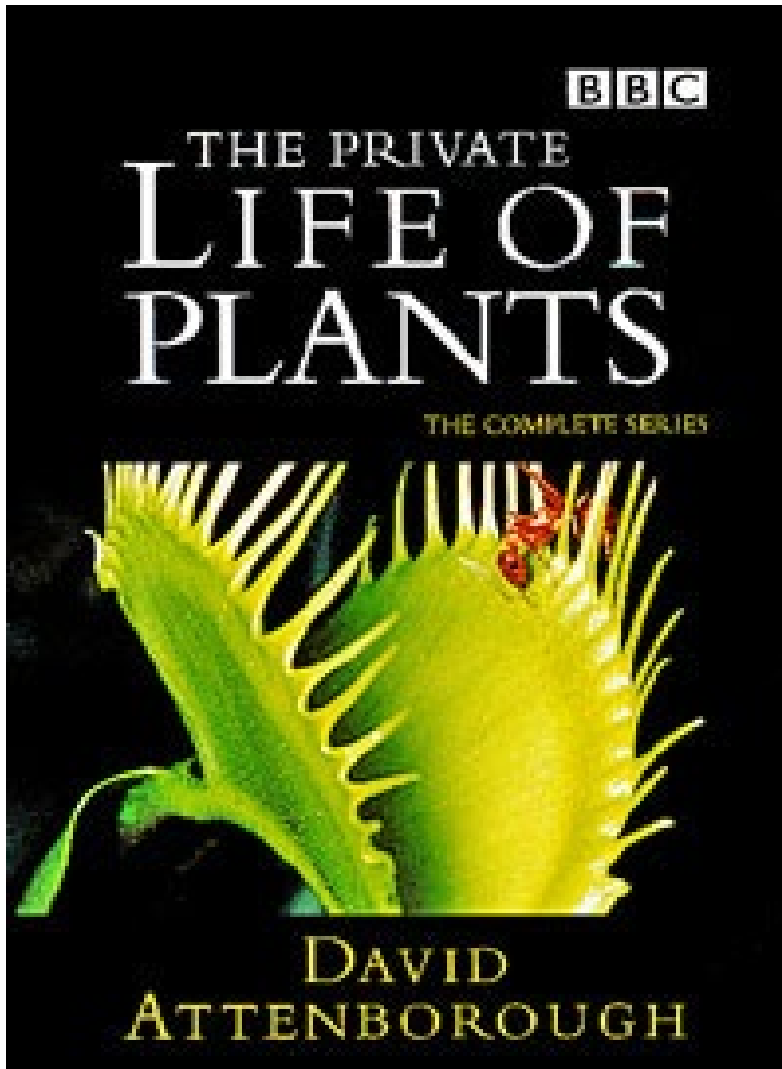


Strategies to help your child

- 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 Science documentaries. (Eg: Animal Planets, National Geographic channels, and other BBC videos)





Thank you.

