



Briefing for Parents

Mathematics & Science

Mr Jonathan Lo

HOD Science

Outline of presentation

❖ Mathematics


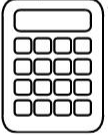
- *Format of paper (Standard & Foundation)*
- *Supporting our children*
- *Resources*

❖ Science

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PSLE Format (Standard Math)


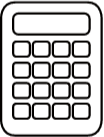
Paper	Booklet	Item Type	Number of questions	Suggested Time Management
Paper 1 	A	MCQ (Shade OAS)	10 x 1 m = 10 m 5 x 2 m = 10 m	<ul style="list-style-type: none"> Total no. of qn: 30 MCQ & SAQ: ≈1-2 min per qn ≈10-15 min to check answers and do OAS shading
	B	Short-answer (SAQ)	5 x 1 m = 5 m 10 x 2 m = 20 m	
			Total: 45 marks Duration: 1 h	
Paper		Item Type	Number of questions	Suggested Time Management
Paper 2 		Short-answer	5 x 2 m = 10 m	<ul style="list-style-type: none"> Total no. of qn: 17 SAQ: ≈1-2 min per qn LAQ: ≈5 min per qn ≈15 – 20 min to check answers
		Structured/ Long-answer (LAQ)	12 x 3m/4m/5m = 45 m	
			Total: 55 marks Duration: 1 h 30 min	
Total marks for Papers 1 and 2: 100 marks				



List of Approved Calculators
(SEAB)

- Both papers will be scheduled on the same day with a break between the two papers.
- The **use of an SEAB approved calculator** is allowed **only in Paper 2**.
- Students have to bring their mathematical instruments. **Use of model rulers is not allowed.**

PSLE Format (Foundation Math)

Paper	Booklet	Item Type	Number of questions	Suggested Time Management
Paper 1 	A	MCQ (Shade OAS)	10 x 1 m = 10 m 10 x 2 m = 20 m	<ul style="list-style-type: none"> Total no. of qn: 30 MCQ & SAQ: ≈1-2 min per qn ≈10-15 min to check answers and do OAS shading
	B	Short-answer (SAQ)	10 x 2 m = 20 m	
			Total: 50 marks Duration: 1 h	
Paper		Item Type	Number of questions	Suggested Time Management
Paper 2 		Short-answer	10 x 2 m = 20 m	<ul style="list-style-type: none"> Total no. of qn: 16 SAQ: ≈1-2 min per qn LAQ: ≈5 min per qn
		Structured/ Long-answer (LAQ)	6 x 3m/4m = 20 m	
			Total: 40 marks Duration: 1 h	≈ 10 – 15 min to check answers
Total marks for Papers 1 and 2: 90 marks				



List of Approved Calculators
(SEAB)

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Supporting Our Children

Ensure that your child has a good mastery of basic concepts and skills:

- Whole Numbers (e.g. multiplication facts)
- Fractions (e.g. conversion facts)
- Decimals
- Geometry

Encourage your child to **make annotations** and **draw diagrams** to represent questions pictorially. Ensure that **notes are jotted down** properly and neatly.

Let your child **practise solving Math questions regularly** and within stipulated time, to develop rigour. **Discourage over-dependence** on use of calculators.

When revising work with your child, consider using questions such as

- What makes you say so?
- What if...?
- What other methods can we use?

Resources

MOE Syllabus (2013)

https://www.moe.gov.sg/-/media/files/primary/mathematics_syllabus_primary_1_to_6.pdf?la=en&hash=B401E761C0BFC490279883CCE4826924CD455F97



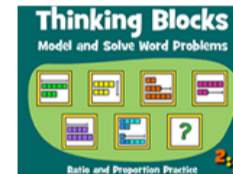
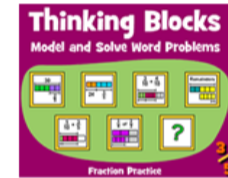
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Student Learning Space (SLS)

<https://vle.learning.moe.edu.sg/login>

Thinking Blocks (Modelling Tool)

<http://www.mathplayground.com/thinkingblocks.html>



Math Playground

<http://www.mathplayground.com/>

Shepperd Software

<https://www.sheppardsoftware.com/math.htm>

<http://gg.gg/g3c91>

<http://gg.gg/g3cbk>



Advice for Parents from renowned Math Professor Jo Boaler (Stanford University)

Standard Science – Format of paper

Booklet	Item Type	No. Of Qns	No. of marks per qns	Marks
A	MCQ	28	2	56
B	Open-ended	12 - 13	2-5	44

Duration of paper: 1 h 45 minutes

Foundation Science – Format of paper

Booklet	Item Type	No. Of Qns	No. of marks per qns	Marks
A	MCQ	18	2	36
B	Structured	6-7	2-3	14
	Open-ended	5-6	2-4	20

Duration of paper: 1 h 15 minutes

Supporting our children (C.L.E.A.R)

Check the Nature Study Book and assignments given to monitor your child's progress (e.g. neat work, highlight important words in the questions and jotting down teacher's notes for correction)

Listen to their explanation

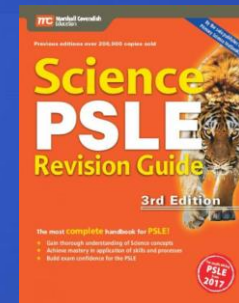
Experiment to reinforce understanding

Apply their understanding in different settings

Revise regularly using a study schedule

Resources (L.O.V.E)

Learn science widely through different reading resources (e.g. Textbook, study guide , Young Scientist, National Geographic etc)



Observe scientific phenomenon around us and encourage your child to explain/describe the scientific phenomenon observed around us.

Resources (L.O.V.E)

Let's find out more...

No	Topics	QR Codes	No	Topics	QR Codes
1	Heredity		9	Main Points in Plant Reproduction	
2	Sexual Reproduction		10	Seed Dispersal	
3	How A Baby in the Uterus Develops		11	Germination	
4	How Urine is Formed		12	The Water Cycle	
5	Fertilisation in Human Seed		13	Water Cycle	
6	The Story of One Seed		14	Phases of Matter - Evaporation, Condensation, Freezing and Melting	
7	Flower Reproduction		15	Evaporation and Condensation	
8	Parts of a Flower and Pollination				

Video on science experiment

- Refer to the QR codes at the end of every activity book
- YouTube
(Peekaboo Kidz, SciShow kids, Crashcourse Kids etc)
- TED-Ed Science
(<https://ed.ted.com/lessons?category=science-technology>)

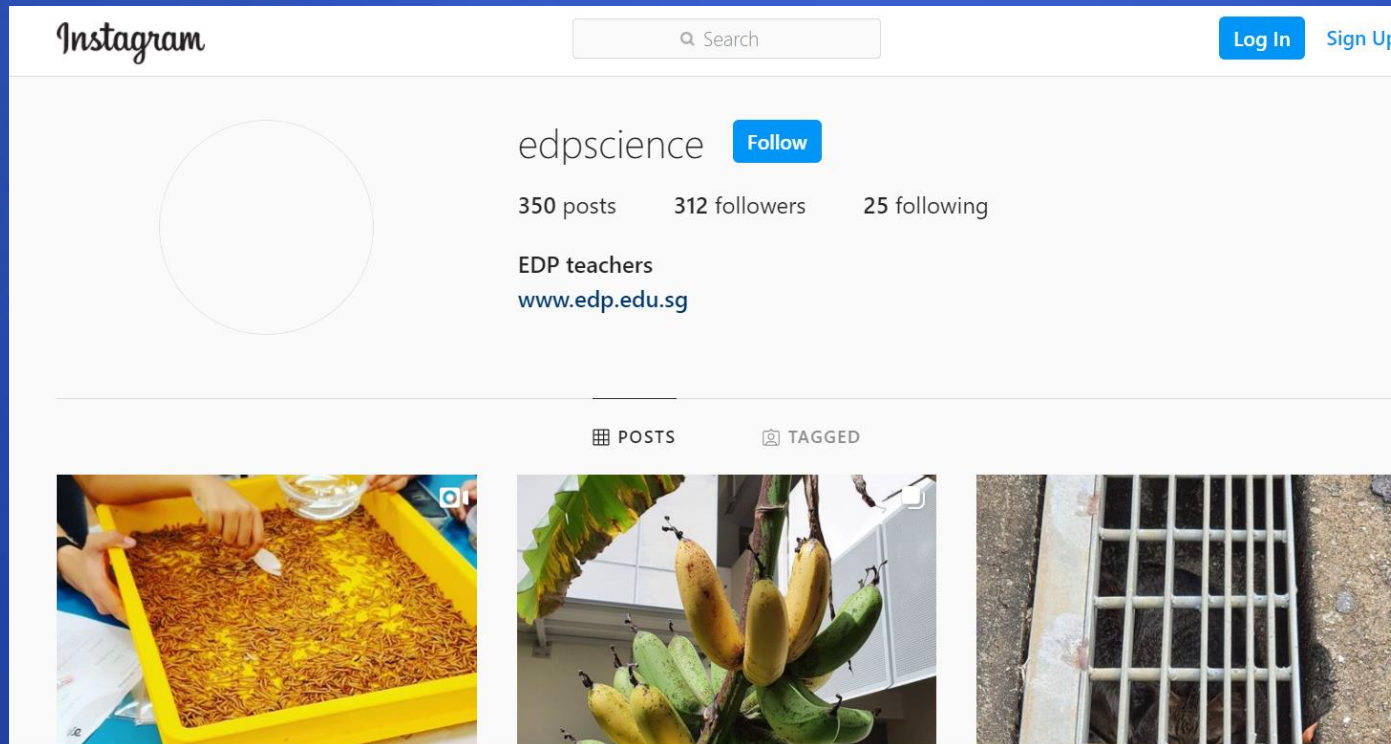
Resources (L.O.V.E)

Experience science through family fieldtrips to local parks, gardens and nature reserve (e.g. Sungei Buloh Nature Reserve, Botanic gardens, Zoo, Hort Park etc)



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- Our ID: edpscience



The image shows a screenshot of the Instagram profile for 'edpscience'. At the top left is the Instagram logo. To its right is a search bar with a magnifying glass icon and the word 'Search'. Further right are two buttons: 'Log In' and 'Sign Up'. Below the search bar is the profile header for 'edpscience', which includes a circular profile picture placeholder, the name 'edpscience', a blue 'Follow' button, and statistics: '350 posts', '312 followers', and '25 following'. Below the statistics is the bio: 'EDP teachers' and the website 'www.edp.edu.sg'. At the bottom of the profile are two tabs: 'POSTS' (selected) and 'TAGGED'. Below the tabs are three image thumbnails: the first shows hands sorting through a yellow tray of brown seeds; the second shows a bunch of green and yellow bananas; the third shows a close-up of a white metal grate.



Please kindly fill out the short feedback form.

**This will help us better plan future briefings
cum networking sessions.**

Thank you!

**THANK
YOU!**