How to Support Your Child in Learning Science

Sharing by Mdm Evelyn Teo, Mdm Yeo Hwee Hwee & Ms Deanna Chua 2 April 2022 (Saturday)

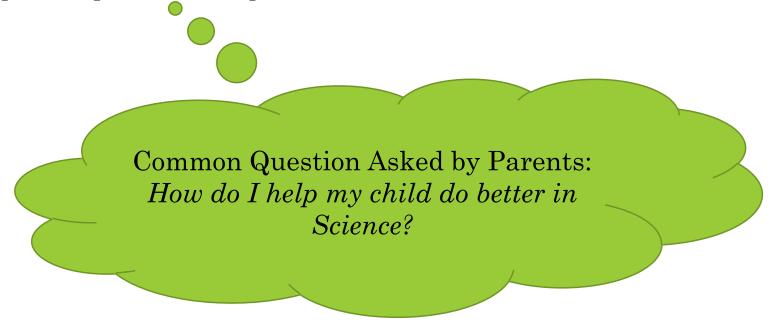
Objectives for today's sharing

Parents will:

- understand the use of school learning resources to support Science learning.
- learn about the classroom strategies that our teachers employ to better support their child in answering multiple-choice and openended questions.
- gain practical tips on how they can stimulate their child's interest in Science as well as tips on how to support their child in learning Science.

Intent of this sharing

• To partner parents to help our students do better in Science.



Outline

• Understanding the use of FGPS Science resources to support Science learning

Questions about Science learning for parents include:

- What does my child learn in Science?
- How does my child learn in Science?
- How is my child assessed in Science?
- Tips & strategies for answering multiple-choice and open-ended questions
- **Tips for parents** to stimulate your child's interest in Science and how to support your child in learning Science.
- · Q&A segment

Understanding the use of FGPS Science resources to support Science learning

Questions about Science learning for parents include:

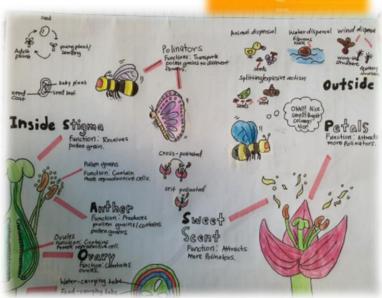
- What does my child learn in Science?
- How does my child learn in Science?
- How is my child assessed in Science?

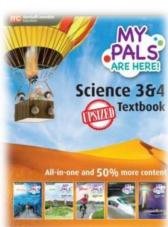
FGPS Science resources to support learning

BIOLOGY

- Textbooks & Workbooks
- Topical Worksheets
- Science Journal
- Personal Science Kits (for selected topics)











What does my child learn in Science?

Themes	Lower Block (P3-P4)	Upper Block (P5-P6)
Diversity	Diversity of living and non-living thingsDiversity of materials	
Cycles	Life cycles of plants and animalsCycles in matter	Reproduction of plants and animalsCycles in water
Systems	 Plant System (Plant parts and functions) Human System (Digestive system) 	 Plant Transport System Human Respiratory and Circulatory Systems Cell System Electrical System
Interactions	Interaction of forces (Magnets)	Interaction of forcesInteraction within the environment
Energy	Energy Forms and Uses (Light and Heat)	Energy Forms and Uses (Photosynthesis)Energy Conversion

Notes: Parents are advised to keep all the Science materials until P6 for revision purpose. Overview of Scheme of Work (SOW) 2022 was communicated in T1W4 Parents Notification.

What does my child learn in Science?

The skill sets identified in the bullet points here are introduced in a developmental manner and aligned to that of Lower Secondary Science.

	Engaging with an event, phenomenon or problem through:	Collecting and presenting evidence through:	Reasoning, Making meaning of information and evidence through:	
Skills	 Formulating hypothesis Generating possibilities Predicting 	ObservingUsing apparatus and equipment	ComparingClassifyingInferringAnalysingEvaluating	
	Communicating			
Processes	Creative problem-solving, Investigation and Decision-making			

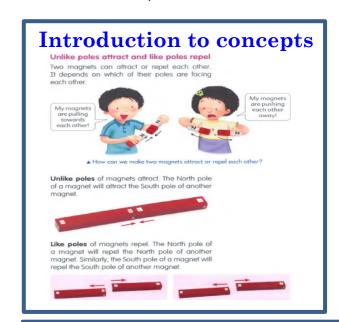
What does my child learn in Science?

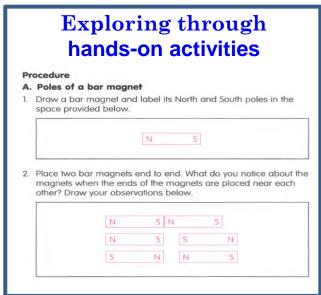
During **lessons** and hands-on, teachers provide opportunities for students to use concepts and integrate process skills (e.g. observation & inferential) and processes and carrying out investigation for science inquiry.

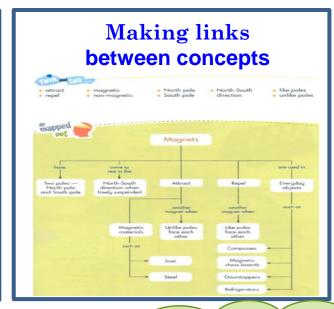


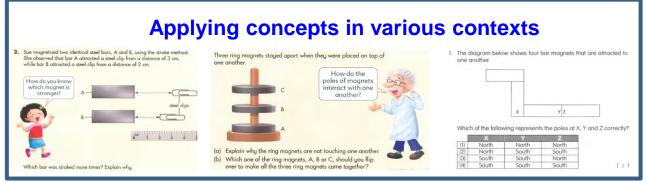
How does my child learn in Science?

• In FGPS, textbooks and workbook are used for:









Tip for parents:
Ensure that your child
maintains good
attendance in school to
maximise your child's
learning.

Tip for parents:
Knowing what is in
the syllabus ensure
your child studies
the relevant
concepts.

How is my child assessed in Science?

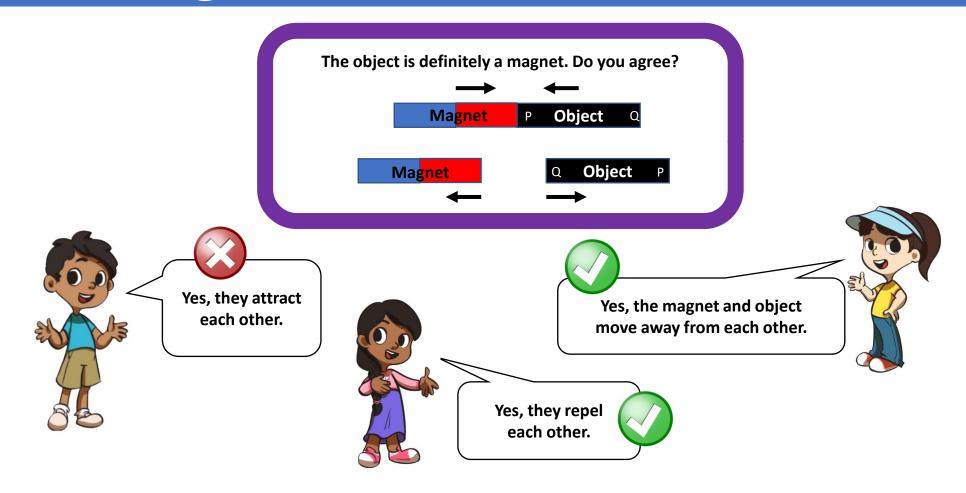
Colonoo	Learning Outcomes			
Science	Knowledge, Understanding and Application	Skills and Processes	Ethics and Attitudes	
	Diversity of Living and Non-Living Things (P3 and P4)			
Syllabus	 *Describe the characteristics of living things. 	 *Observe a variety of living and non- 	 *Show <u>curiosity</u> in exploring the surrounding 	
,	- need water, food and air to	living things and infer differences	living and non-living things by asking	
Primary	survive	between them.	questions.	
,	- grow, respond and			
	reproduce	 *Classify living things into broad 	 *Value individual effort and team work by 	
		groups (in plants and animals) based	respecting different perspectives.	
	 *Recognise some broad groups of living things. 	on similarities and differences of		
Implementation starting with	 plants (flowering, non-flowering) 	common observable characteristics.		
2014 Primary Three Cohort	- animals (amphibians, birds, fish,			
	insects, mammals, reptiles)			
	- fungi (mould, mushroom,			
	yeast)			
	- bacteria			
	Note:			
© 2013 Curriculum Planning and Development Division. This publication is not for sale. All rights reserved. No part of this	- Recall of names of specific living things (e.g. guppy)			
publication may be reproduced without the prior permission of the Ministry of Education, Singapore.	and their characteristics (e.g. give birth to young			
Ministry of Education snowce:	alive) is not required.			
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How is my child assessed in Science?

- Students are assessed based on their ability to apply their conceptual understanding and application of concepts and skills.
- Marks will be awarded when:
 - ✓ students can <u>explain their understanding of concepts</u> in their own words.
 - ✓ concepts which are <u>correct applied in the context of the</u> <u>questions.</u>

Tip for parents:
Knowing the relevant
scientific vocabulary and
learning how to spell at the
child's fingertips will be an
advantage.

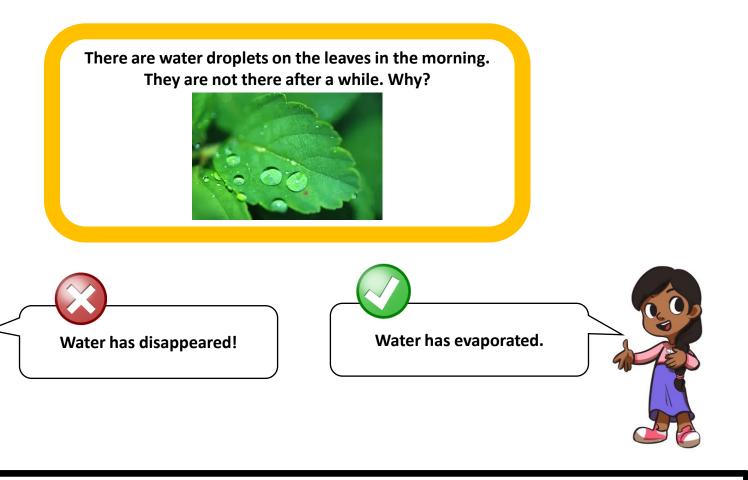
Example 1: Magnets





If the object is only attracted by a magnet, it may just be a magnetic material. There is insufficient evidence to conclude that the object is a magnet. The object is definitely a magnet only if it repels a magnet.

Example 2: Water Cycle





Water didn't disappear. It evaporated.

Conceptually, it continues to exist, except in a different state. 'Water has disappeared' does not explain what happened to the water. Evaporation happens when water changes from liquid to gas.

Tips & strategies for answering multiple-choice and open-ended questions

(P3&4): Facilitated by Mdm Yeo Hwee Hwee

(P5): Facilitated by Ms Deanna Chua

Refer to pdf attachments

- 2022 P3 & 4 Questions for Parents Post WS (upload)
- 2022 P5 Questions for Parents Post WS (upload)

Tips for parents to stimulate your child's interest in Science and how to support your child in learning Science.

Tips for parents to stimulate your child's interest in Science

> https://www.schoolbag.sg

Schoolbag.sg is an online publication by the Ministry of Education, Singapore. It provide parents, educators and the general public with education news, school features and tips.





Tips for parents to stimulate your child's interest in Science

SCHOOLBAG

SCHOOLBAG THE EDUCATION NEWS SITE

HOME EDUCATION FEATURES

Yes, toddlers can pick up science concepts

TEACHERS' DIGEST

MULTIMEDIA



HOME EDUCATION FEATURES TEACHERS' DIGEST MULTIMEDIA FAQ

Home > How do you make kids love Science? You don't

How do you make kids love Science? You don't



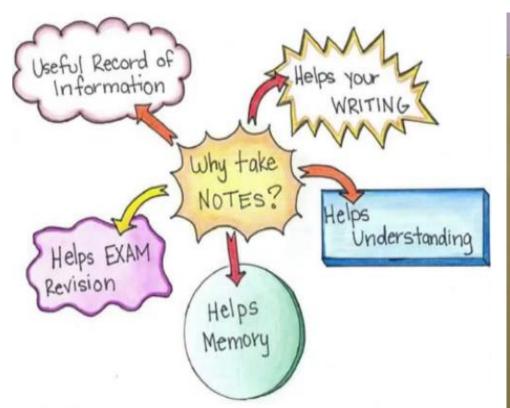
Archana (right) demonstrating a science concept by keeping a ball aloft with a hairdryer.

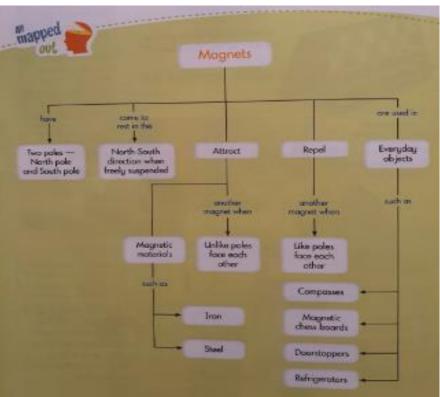
Tip for parents:
With heightened interest, your child
will have an inquisitive mind for
Science learning which will in turn
broaden his/her understanding of

scientific concepts and skills.

Tips for parents to support your child in learning Science

Help your child revise and retain his/her science concepts - Document learning through drawing mindmaps, taking notes or drawing pictorial representations with labels.





Tips for parents to support your child in learning Science

Resources you can make use to guide your child.

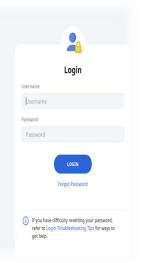
Science Textbooks

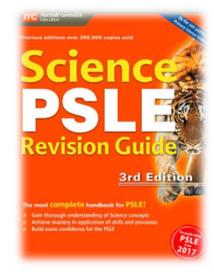
SLS

 PSLE Revision Guide (optional item on booklist)









Tips for parents to support your child in learning Science

Other forms of support you can provide.

- · Monitor your child's homework and corrections.
- <u>Support</u> and monitor your child's online learning (with supervision, if necessary) e.g. SLS assignments, online research.
- Make use of the strategies shared if you can guide.
- · <u>Use probing questions</u> to guide your child.

Tips for parents: Questions you can ask your child to guide him/her include:

- Did you read carefully and highlight key information? Do you understand what the question is asking?
- Do you understand the tables / diagrams / graph? Did you annotate?
- What are the clues for you to link to the concept leant? (Encourage your child to attempt every question and not leave blank.)
- Can you eliminate the incorrect answers?

hank,